

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU041124\  
 Data File : VU058640.D  
 Acq On : 12 Apr 2024 04:12  
 Operator : MD/SY  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 48 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005196

Quant Time: Apr 12 05:03:19 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR040424WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Apr 12 04:41:05 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.242  | 114   | 79398    | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.412  | 117   | 78695    | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.804 | 152   | 38707    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.592  | 65    | 23907    | 4.548    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 91.000%  |
| 7) Chloroethane-d5            | 1.904  | 69    | 21782    | 4.768    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 95.400%  |
| 11) 1,1-Dichloroethene-d2     | 2.557  | 65    | 10998    | 4.622    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 92.400%  |
| 20) 2-Butanone-d5             | 4.618  | 46    | 51513    | 46.501   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 93.000%  |
| 24) Chloroform-d              | 5.052  | 84    | 51595    | 4.917    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 98.400%  |
| 26) 1,2-Dichloroethane-d4     | 5.692  | 65    | 23518    | 4.802    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 96.000%  |
| 32) Benzene-d6                | 5.718  | 84    | 97717    | 4.612    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 92.200%  |
| 36) 1,2-Dichloropropane-d6    | 6.682  | 67    | 29967    | 4.510    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 90.200%  |
| 41) Toluene-d8                | 7.891  | 98    | 85981    | 4.576    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 91.600%  |
| 43) trans-1,3-Dichloroprop... | 8.174  | 79    | 9085     | 4.405    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 88.000%  |
| 46) 2-Hexanone-d5             | 8.627  | 63    | 38808    | 45.620   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 91.240%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.750 | 84    | 19853    | 4.233    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 84.600%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.187 | 152   | 26536    | 4.070    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 81.400%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.377  | 85    | 26646    | 4.026    | ug/L   | 98       |
| 3) Chloromethane              | 1.515  | 50    | 32832    | 4.054    | ug/L   | 97       |
| 5) Vinyl chloride             | 1.599  | 62    | 34872    | 4.311    | ug/L   | 100      |
| 6) Bromomethane               | 1.853  | 94    | 15830    | 4.137    | ug/L   | 97       |
| 8) Chloroethane               | 1.927  | 64    | 23228    | 4.546    | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 2.133  | 101   | 46737    | 4.375    | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.573  | 101   | 27501    | 4.333    | ug/L   | 97       |
| 12) 1,1-Dichloroethene        | 2.573  | 96    | 24611    | 4.374    | ug/L   | 96       |
| 13) Acetone                   | 2.624  | 43    | 36840    | 38.963   | ug/L   | 100      |
| 14) Carbon disulfide          | 2.785  | 76    | 74086    | 4.145    | ug/L   | 98       |
| 15) Methyl Acetate            | 2.943  | 43    | 9948     | 4.459    | ug/L   | 99       |
| 16) Methylene chloride        | 3.036  | 84    | 31597    | 4.231    | ug/L   | 93       |
| 17) Methyl tert-butyl Ether   | 3.348  | 73    | 58734    | 4.419    | ug/L   | 99       |
| 18) trans-1,2-Dichloroethene  | 3.345  | 96    | 26217    | 4.446    | ug/L   | 96       |
| 19) 1,1-Dichloroethane        | 3.856  | 63    | 61075    | 4.745    | ug/L   | 98       |
| 21) 2-Butanone                | 4.695  | 43    | 61557    | 43.558   | ug/L   | 99       |
| 22) cis-1,2-Dichloroethene    | 4.657  | 96    | 30324    | 4.579    | ug/L   | 97       |
| 23) Bromochloromethane        | 4.965  | 128   | 11976    | 4.590    | ug/L   | 92       |
| 25) Chloroform                | 5.075  | 83    | 59466    | 4.773    | ug/L   | 100      |

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 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 48 Sample Multiplier: 1

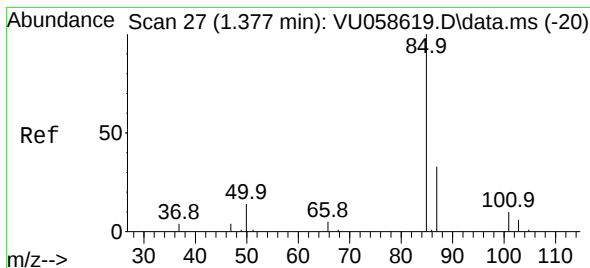
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005196

Quant Time: Apr 12 05:03:19 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR040424WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Apr 12 04:41:05 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.785  | 62   | 37076    | 4.887  | ug/L  | 99       |
| 29) 1,1,1-Trichloroethane     | 5.306  | 97   | 47104    | 4.464  | ug/L  | 97       |
| 30) Cyclohexane               | 5.380  | 56   | 46303    | 4.155  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.515  | 117  | 39767    | 4.451  | ug/L  | 99       |
| 33) Benzene                   | 5.766  | 78   | 126016   | 4.417  | ug/L  | 100      |
| 34) Trichloroethene           | 6.534  | 95   | 30727    | 4.273  | ug/L  | 95       |
| 35) Methylcyclohexane         | 6.756  | 83   | 43467    | 4.012  | ug/L  | 96       |
| 37) 1,2-Dichloropropane       | 6.782  | 63   | 34704    | 4.624  | ug/L  | 100      |
| 38) Bromodichloromethane      | 7.097  | 83   | 39643    | 4.628  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene   | 7.599  | 75   | 40380    | 4.231  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.782  | 43   | 162574   | 46.020 | ug/L  | 98       |
| 42) Toluene                   | 7.962  | 91   | 130513   | 4.362  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 8.203  | 75   | 33187    | 4.409  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 8.393  | 97   | 20295    | 4.630  | ug/L  | 95       |
| 47) Tetrachloroethene         | 8.547  | 164  | 22342    | 4.238  | ug/L  | 96       |
| 48) 2-Hexanone                | 8.679  | 43   | 115762   | 46.159 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.801  | 129  | 22199    | 4.380  | ug/L  | 97       |
| 50) 1,2-Dibromoethane         | 8.917  | 107  | 17659    | 4.405  | ug/L  | 97       |
| 51) Chlorobenzene             | 9.441  | 112  | 77909    | 4.303  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.563  | 91   | 137941   | 4.352  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.689  | 106  | 49700    | 4.378  | ug/L  | 98       |
| 54) o-Xylene                  | 10.094 | 106  | 48632    | 4.370  | ug/L  | 98       |
| 55) Styrene                   | 10.107 | 104  | 79883    | 4.462  | ug/L  | 96       |
| 57) 1,1,2,2-Tetrachloroethane | 10.775 | 83   | 24434    | 4.519  | ug/L  | 98       |
| 59) Bromoform                 | 10.283 | 173  | 11428    | 4.419  | ug/L  | 99       |
| 60) Isopropylbenzene          | 10.476 | 105  | 123176   | 4.347  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.814 | 75   | 17339    | 4.390  | ug/L  | 98       |
| 62) 1,3,5-Trimethylbenzene    | 11.081 | 105  | 98079    | 4.244  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.463 | 105  | 101073   | 4.284  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.740 | 146  | 57600    | 4.185  | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.830 | 146  | 55372    | 4.129  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.206 | 146  | 53428    | 4.267  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.991 | 75   | 3261     | 4.869  | ug/L  | 92       |
| 69) 1,3,5-Trichlorobenzene    | 13.213 | 180  | 40117    | 3.941  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.836 | 180  | 27305    | 3.479  | ug/L  | 99       |
| 71) Naphthalene               | 14.084 | 128  | 30882    | 2.871  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.325 | 180  | 22841    | 3.524  | ug/L  | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

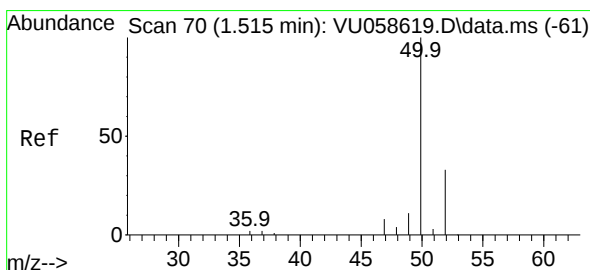
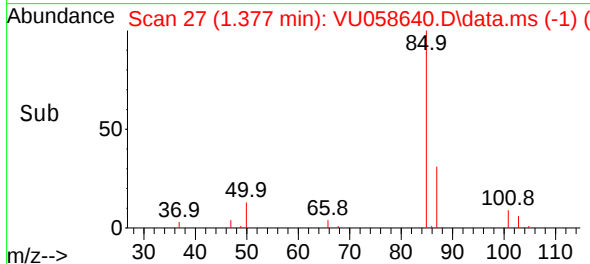
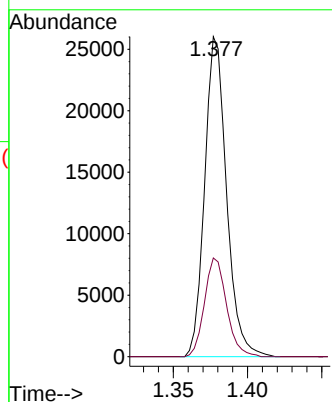
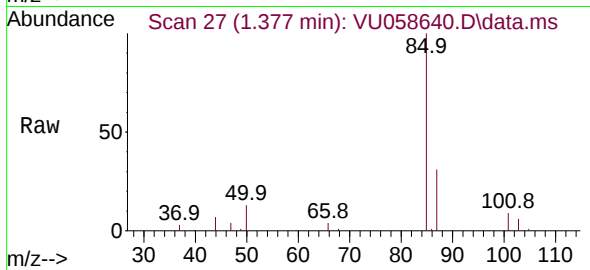




#2  
 Dichlorodifluoromethane  
 Concen: 4.026 ug/L  
 RT: 1.377 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VU058640.D  
 Acq: 12 Apr 2024 04:12

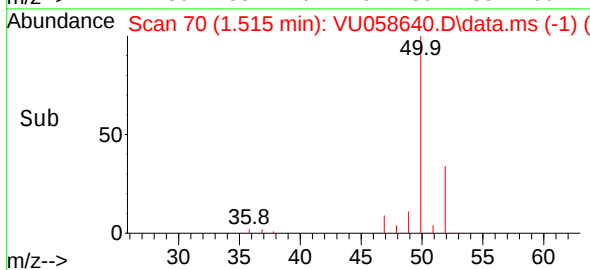
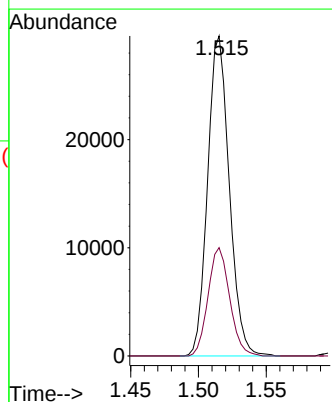
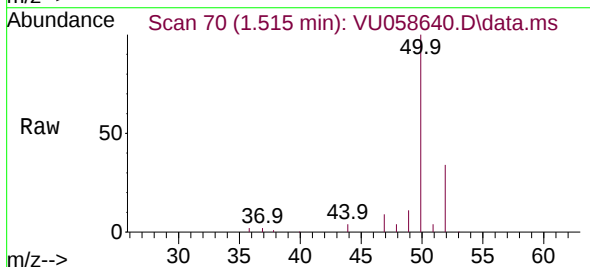
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005196

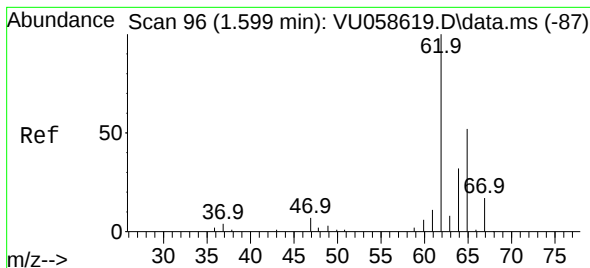
Tgt Ion: 85 Resp: 26646  
 Ion Ratio Lower Upper  
 85 100  
 87 31.1 25.9 38.9



#3  
 Chloromethane  
 Concen: 4.054 ug/L  
 RT: 1.515 min Scan# 70  
 Delta R.T. -0.000 min  
 Lab File: VU058640.D  
 Acq: 12 Apr 2024 04:12

Tgt Ion: 50 Resp: 32832  
 Ion Ratio Lower Upper  
 50 100  
 52 33.9 22.6 42.0





#5

Vinyl chloride

Concen: 4.311 ug/L

RT: 1.599 min Scan# 9

Delta R.T. -0.000 min

Lab File: VU058640.D

Acq: 12 Apr 2024 04:12

Instrument :

MSVOA\_U

ClientSampleId :

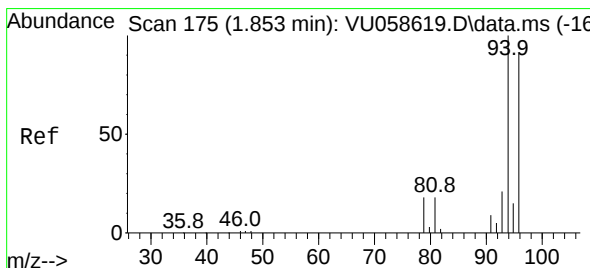
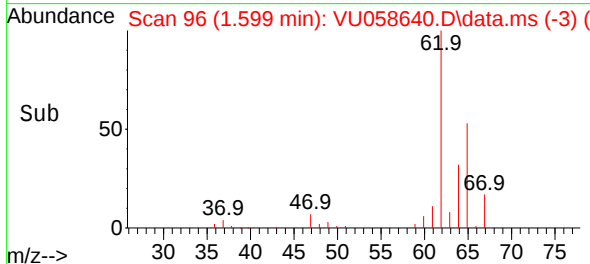
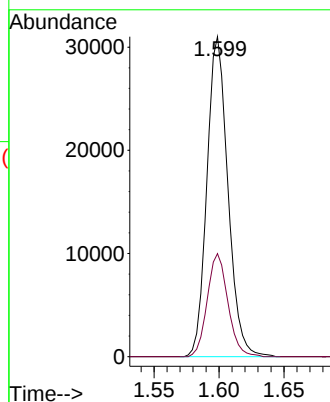
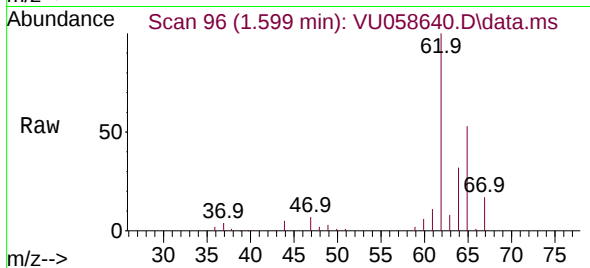
VSTD005196

Tgt Ion: 62 Resp: 34872

Ion Ratio Lower Upper

62 100

64 32.2 22.6 42.0



#6

Bromomethane

Concen: 4.137 ug/L

RT: 1.853 min Scan# 175

Delta R.T. -0.000 min

Lab File: VU058640.D

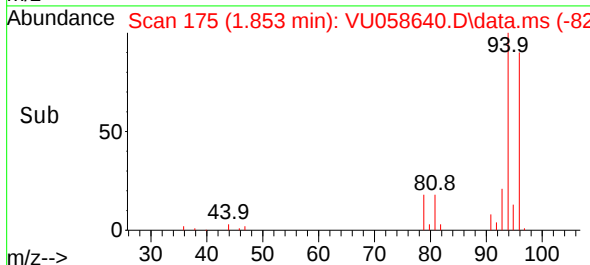
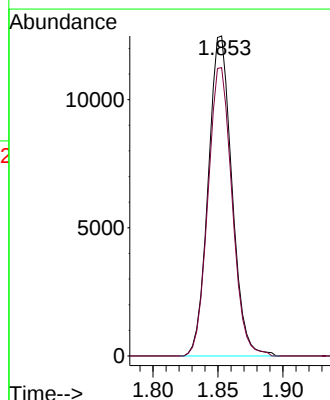
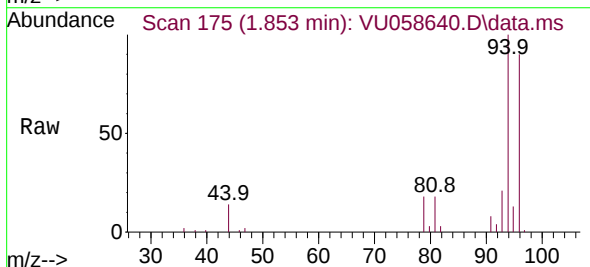
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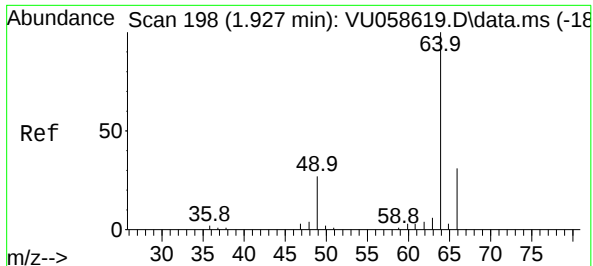
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Ion Ratio Lower Upper

94 100

96 90.1 65.4 121.4

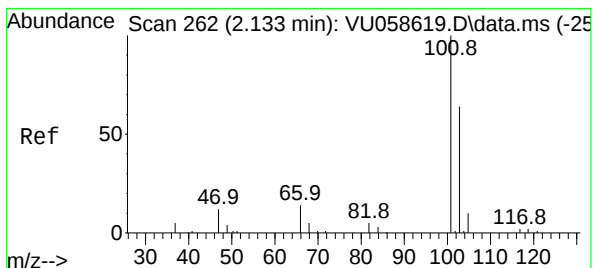
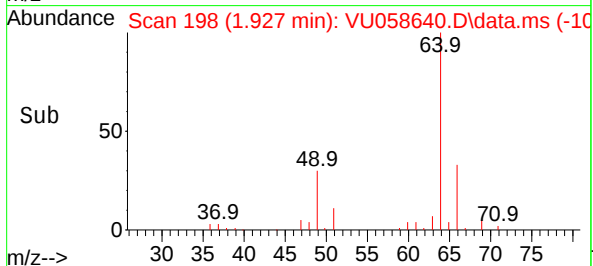
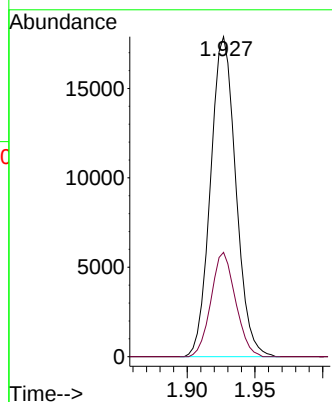
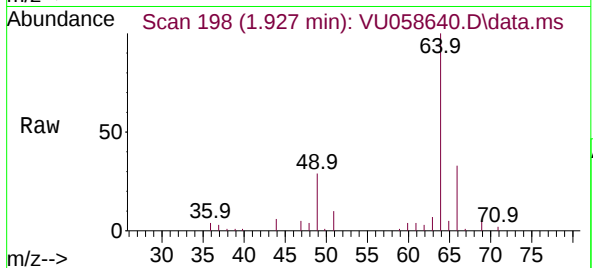




#8  
Chloroethane  
Concen: 4.546 ug/L  
RT: 1.927 min Scan# 198  
Delta R.T. -0.000 min  
Lab File: VU058640.D  
Acq: 12 Apr 2024 04:12

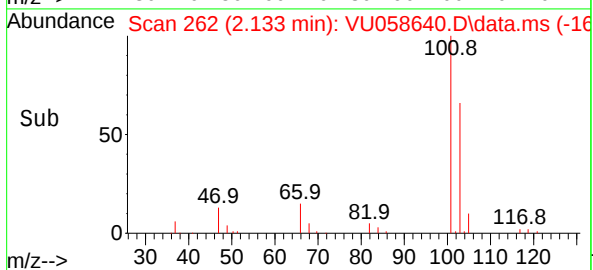
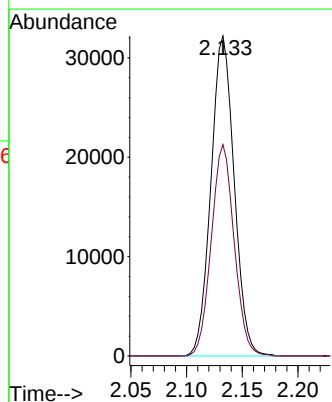
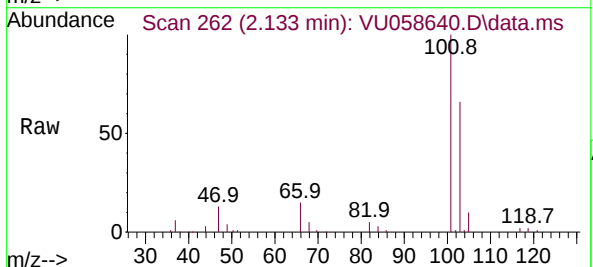
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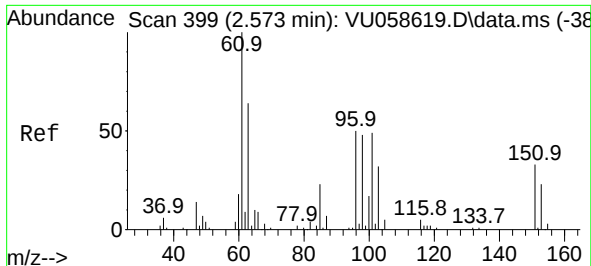
Tgt Ion: 64 Resp: 23228  
Ion Ratio Lower Upper  
64 100  
66 32.6 22.5 41.9



#9  
Trichlorofluoromethane  
Concen: 4.375 ug/L  
RT: 2.133 min Scan# 262  
Delta R.T. -0.000 min  
Lab File: VU058640.D  
Acq: 12 Apr 2024 04:12

Tgt Ion:101 Resp: 46737  
Ion Ratio Lower Upper  
101 100  
103 65.0 51.2 76.8

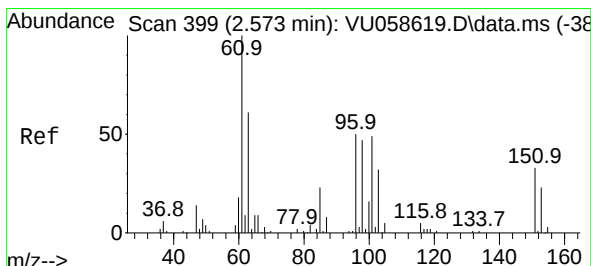
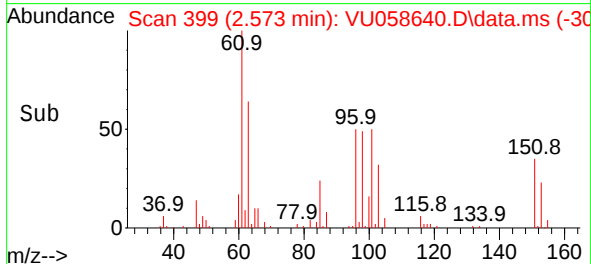
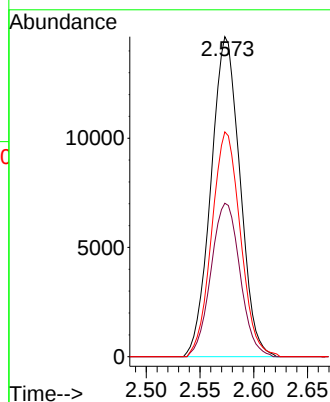
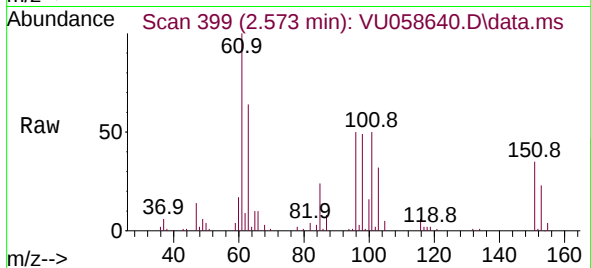




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 4.333 ug/L  
 RT: 2.573 min Scan# 399  
 Delta R.T. -0.000 min  
 Lab File: VU058640.D  
 Acq: 12 Apr 2024 04:12

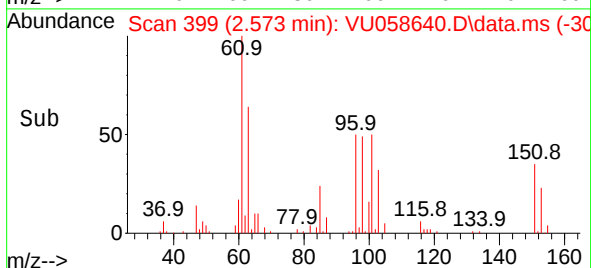
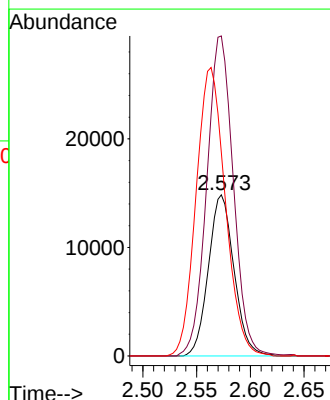
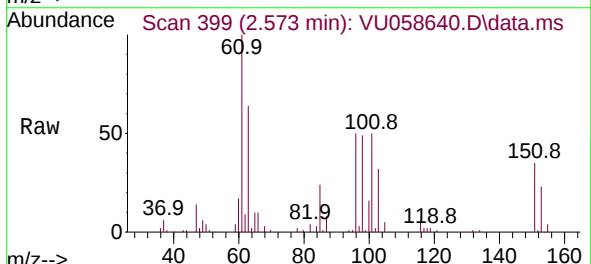
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005196

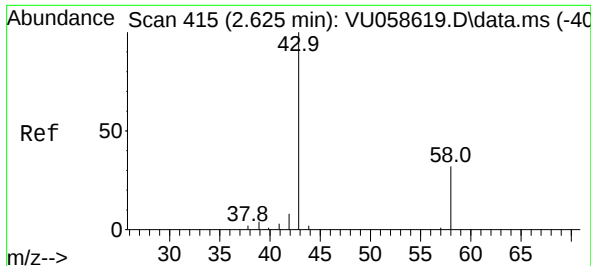
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 Ion Ratio Lower Upper  
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 151 69.6 58.2 87.4



#12  
 1,1-Dichloroethene  
 Concen: 4.374 ug/L  
 RT: 2.573 min Scan# 399  
 Delta R.T. -0.000 min  
 Lab File: VU058640.D  
 Acq: 12 Apr 2024 04:12

Tgt Ion: 96 Resp: 24611  
 Ion Ratio Lower Upper  
 96 100  
 61 198.5 132.5 246.1  
 63 126.4 87.7 162.9





#13

Acetone

Concen: 38.963 ug/L

RT: 2.624 min Scan# 415

Delta R.T. -0.000 min

Lab File: VU058640.D

Acq: 12 Apr 2024 04:12

Instrument :

MSVOA\_U

ClientSampleId :

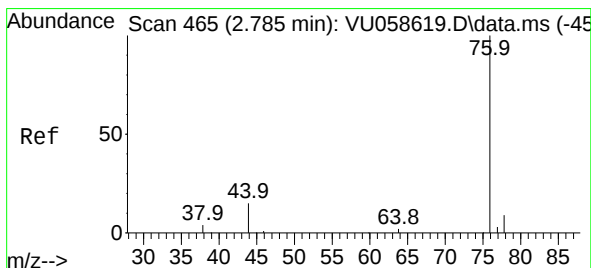
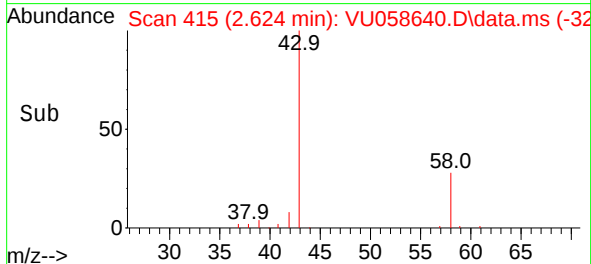
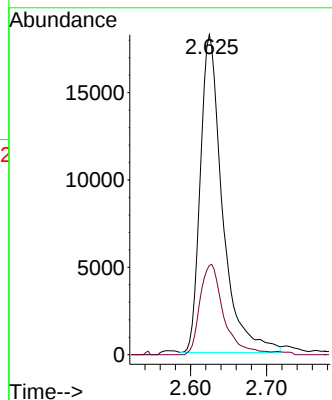
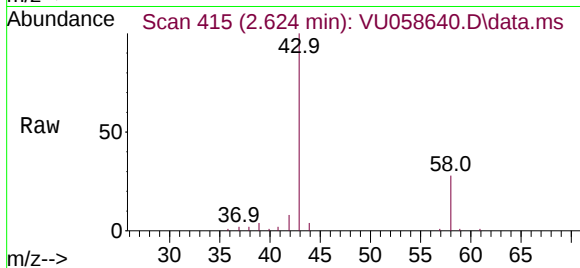
VSTD005196

Tgt Ion: 43 Resp: 36840

Ion Ratio Lower Upper

43 100

58 30.5 0.0 61.4



#14

Carbon disulfide

Concen: 4.145 ug/L

RT: 2.785 min Scan# 465

Delta R.T. -0.000 min

Lab File: VU058640.D

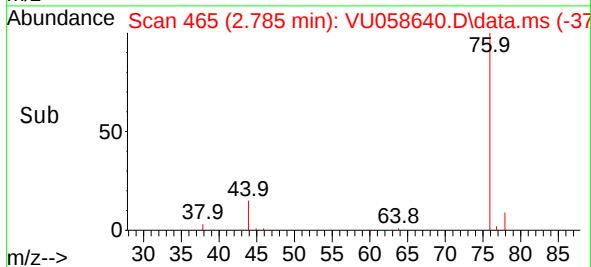
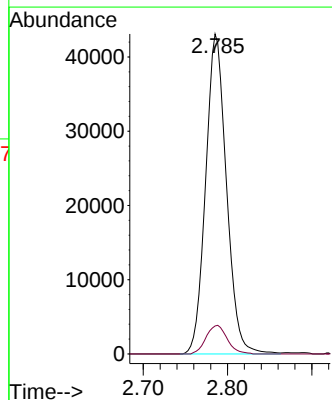
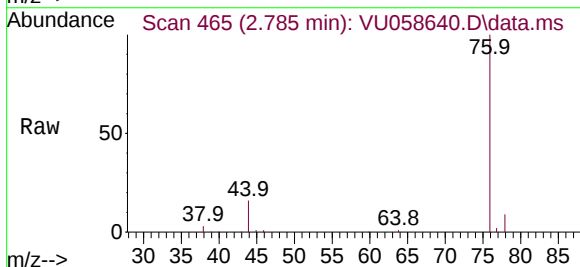
Acq: 12 Apr 2024 04:12

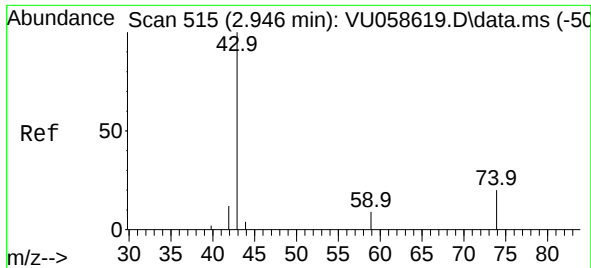
Tgt Ion: 76 Resp: 74086

Ion Ratio Lower Upper

76 100

78 8.7 7.5 11.3





#15

Methyl Acetate

Concen: 4.459 ug/L

RT: 2.943 min Scan# 51

Delta R.T. -0.003 min

Lab File: VU058640.D

Acq: 12 Apr 2024 04:12

Instrument :

MSVOA\_U

ClientSampleId :

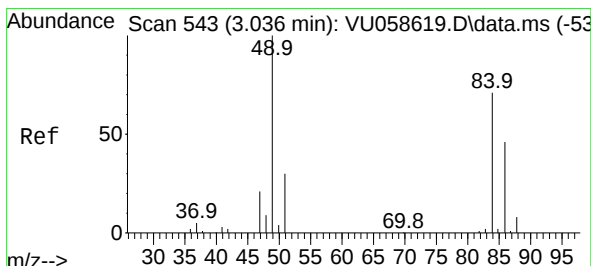
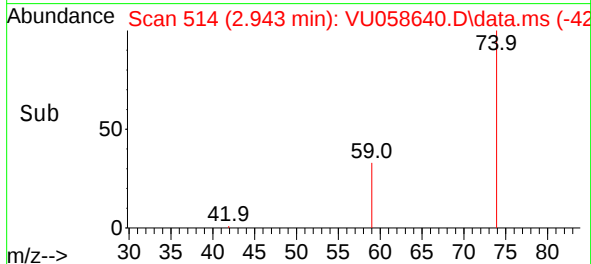
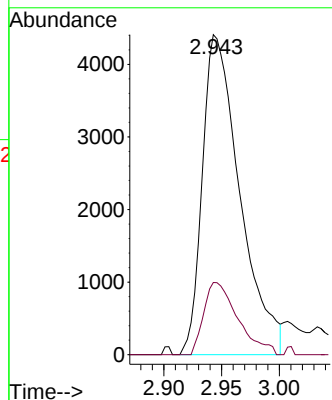
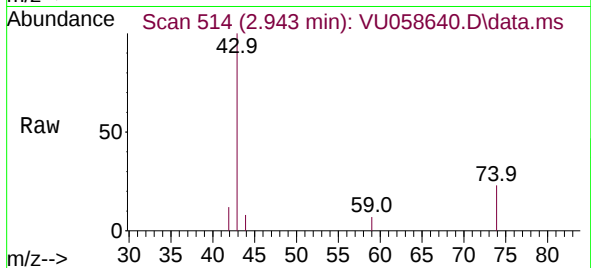
VSTD005196

Tgt Ion: 43 Resp: 9948

Ion Ratio Lower Upper

43 100

74 20.6 16.6 25.0



#16

Methylene chloride

Concen: 4.231 ug/L

RT: 3.036 min Scan# 543

Delta R.T. -0.000 min

Lab File: VU058640.D

Acq: 12 Apr 2024 04:12

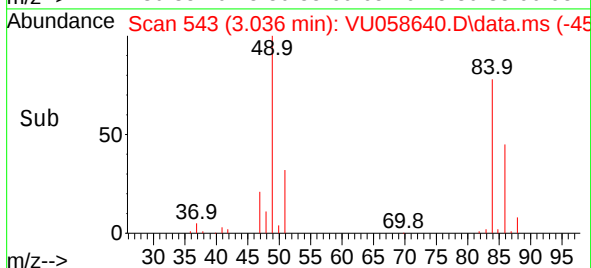
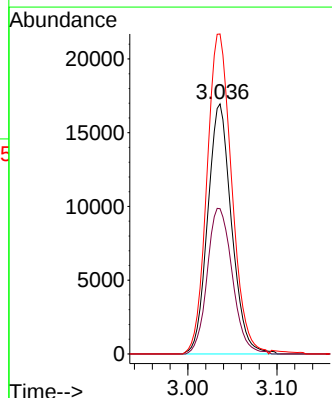
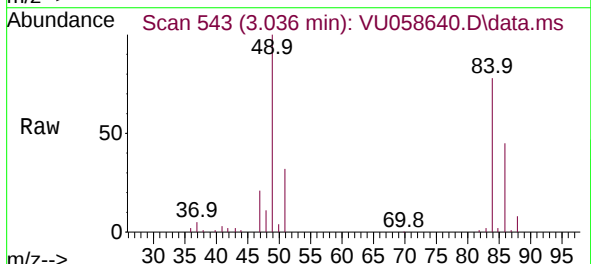
Tgt Ion: 84 Resp: 31597

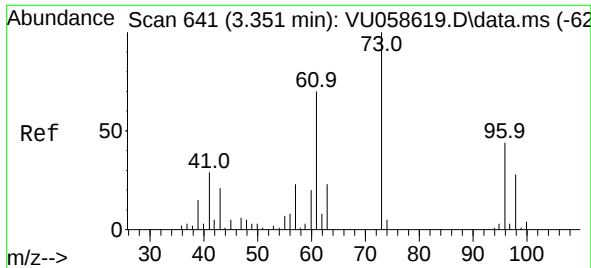
Ion Ratio Lower Upper

84 100

86 58.1 44.3 82.3

49 127.9 96.0 178.2

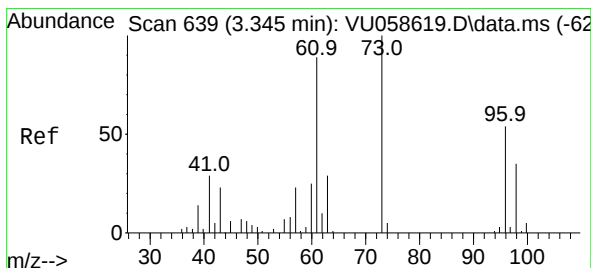
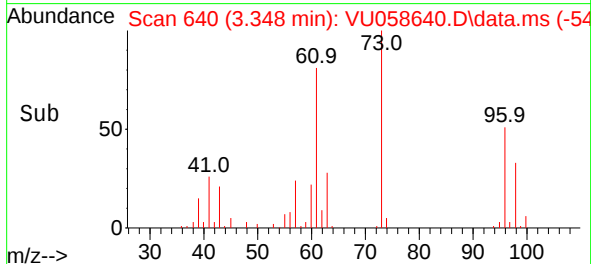
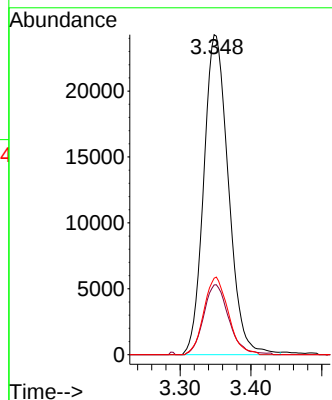
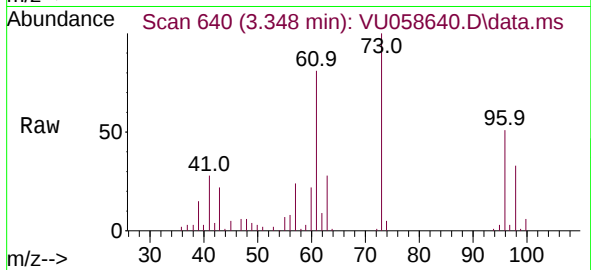




#17  
Methyl tert-butyl Ether  
Concen: 4.419 ug/L  
RT: 3.348 min Scan# 641  
Delta R.T. -0.003 min  
Lab File: VU058640.D  
Acq: 12 Apr 2024 04:12

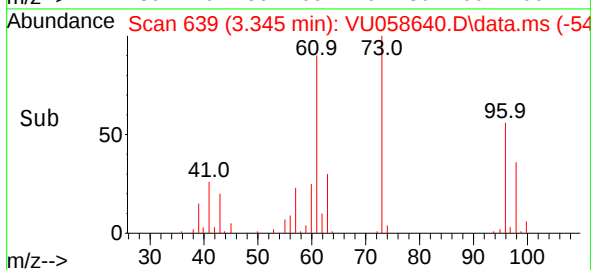
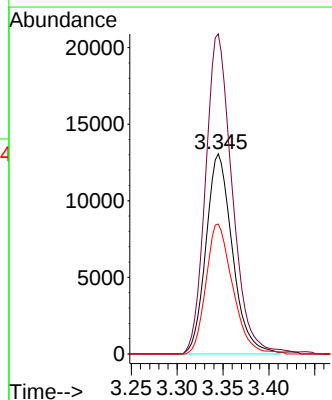
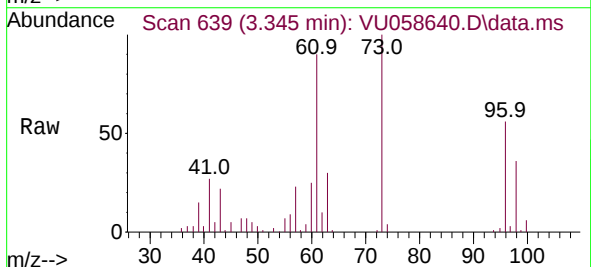
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005196

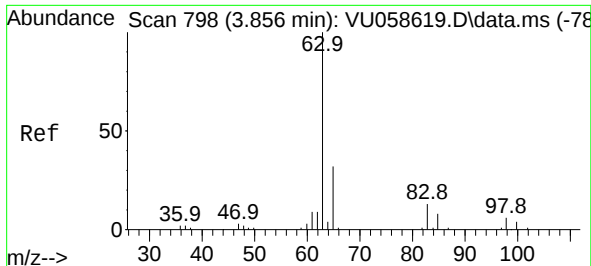
Tgt Ion: 73 Resp: 58734  
Ion Ratio Lower Upper  
73 100  
43 22.3 17.4 26.2  
57 24.0 18.6 27.8



#18  
trans-1,2-Dichloroethene  
Concen: 4.446 ug/L  
RT: 3.345 min Scan# 639  
Delta R.T. -0.000 min  
Lab File: VU058640.D  
Acq: 12 Apr 2024 04:12

Tgt Ion: 96 Resp: 26217  
Ion Ratio Lower Upper  
96 100  
61 159.8 107.6 199.8  
98 64.9 45.1 83.7

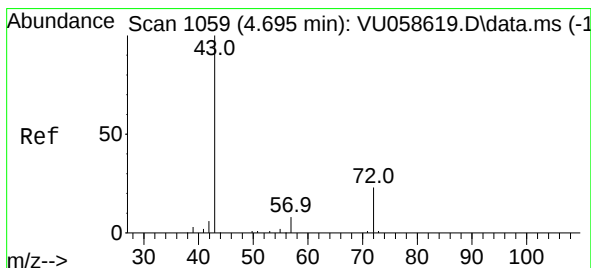
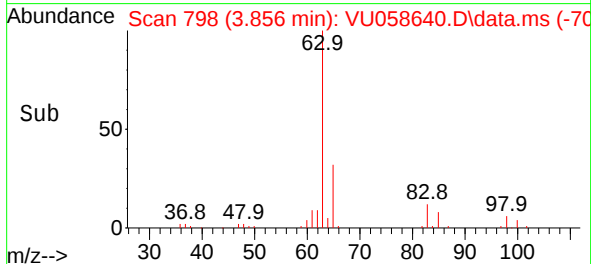
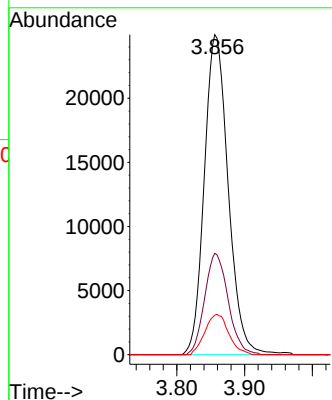
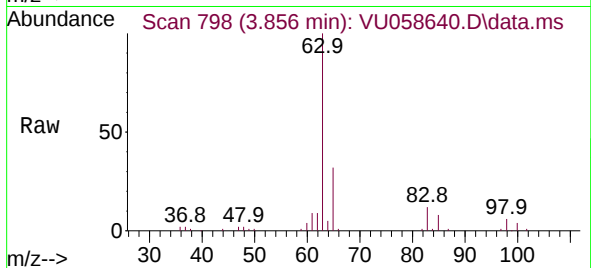




#19  
1,1-Dichloroethane  
Concen: 4.745 ug/L  
RT: 3.856 min Scan# 798  
Delta R.T. -0.000 min  
Lab File: VU058640.D  
Acq: 12 Apr 2024 04:12

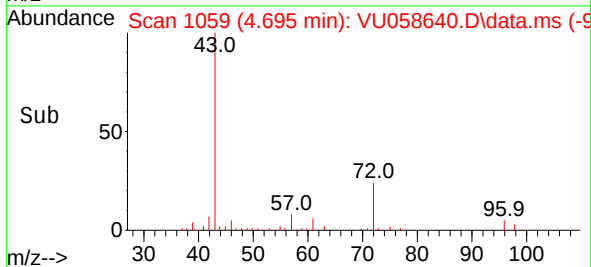
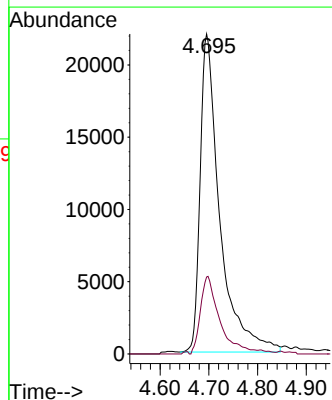
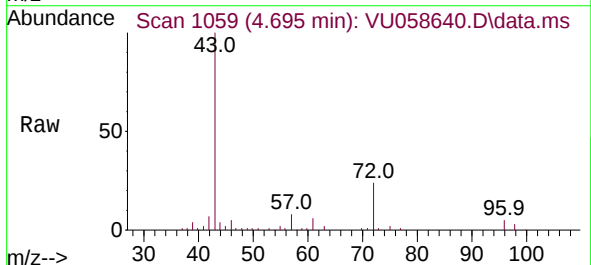
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005196

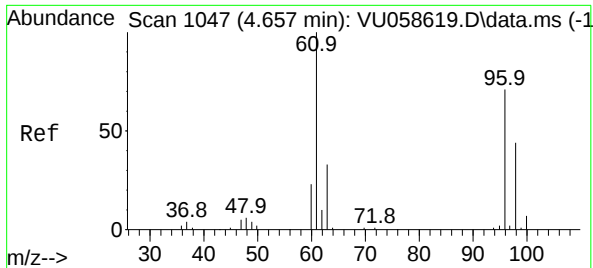
Tgt Ion: 63 Resp: 61075  
Ion Ratio Lower Upper  
63 100  
65 31.7 22.9 42.5  
83 12.4 9.6 17.8



#21  
2-Butanone  
Concen: 43.558 ug/L  
RT: 4.695 min Scan# 1059  
Delta R.T. -0.000 min  
Lab File: VU058640.D  
Acq: 12 Apr 2024 04:12

Tgt Ion: 43 Resp: 61557  
Ion Ratio Lower Upper  
43 100  
72 24.0 11.7 35.0

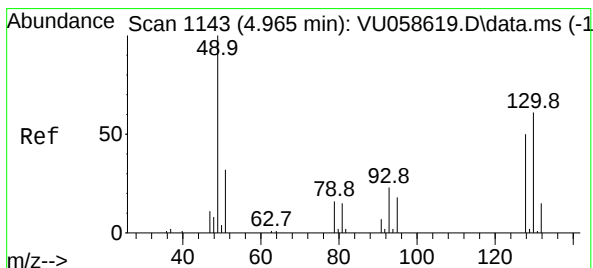
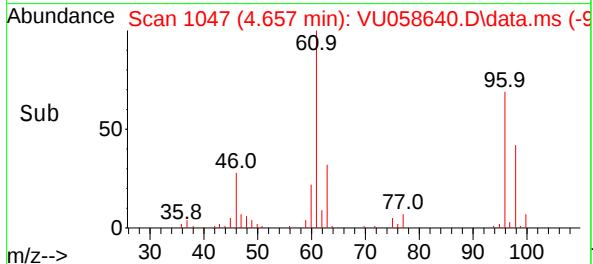
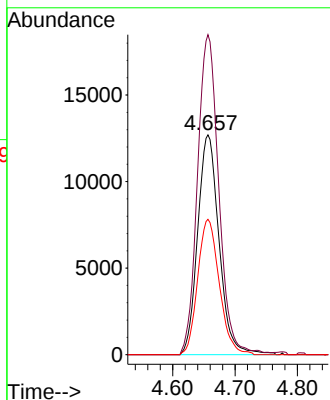
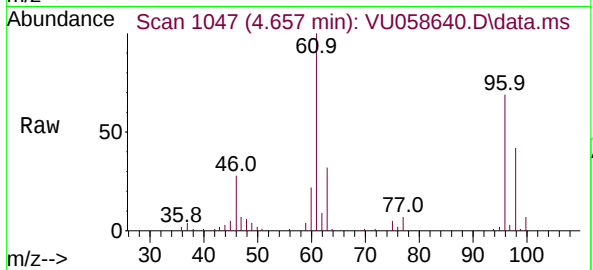




#22  
 cis-1,2-Dichloroethene  
 Concen: 4.579 ug/L  
 RT: 4.657 min Scan# 1047  
 Delta R.T. -0.000 min  
 Lab File: VU058640.D  
 Acq: 12 Apr 2024 04:12

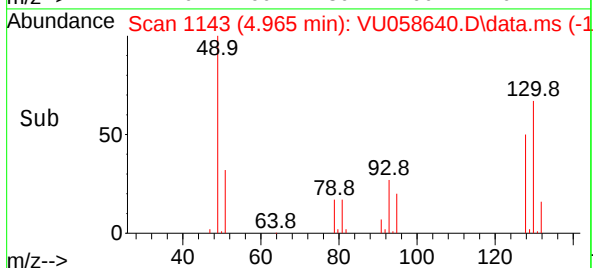
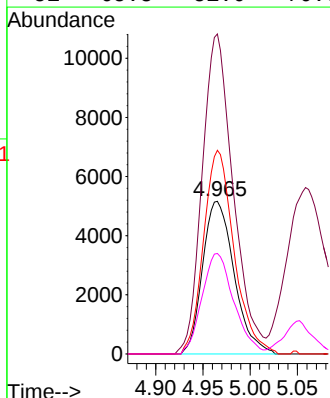
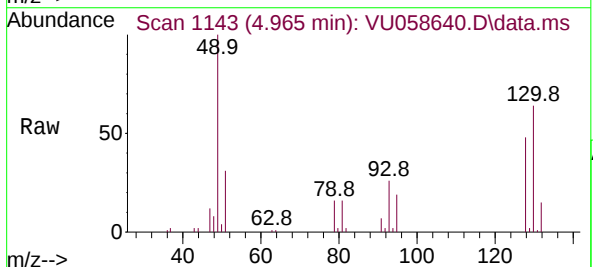
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005196

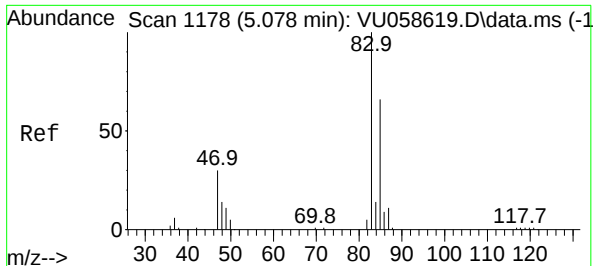
|             |             |
|-------------|-------------|
| Tgt Ion: 96 | Resp: 30324 |
| Ion Ratio   | Lower Upper |
| 96 100      |             |
| 61 145.6    | 98.1 182.3  |
| 98 61.6     | 43.6 81.0   |



#23  
 Bromochloromethane  
 Concen: 4.590 ug/L  
 RT: 4.965 min Scan# 1143  
 Delta R.T. -0.000 min  
 Lab File: VU058640.D  
 Acq: 12 Apr 2024 04:12

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:128 | Resp: | 11976 |
| Ion | Ratio   | Lower | Upper |
| 128 | 100     |       |       |
| 49  | 209.6   | 134.4 | 249.6 |
| 130 | 133.3   | 90.0  | 167.2 |
| 51  | 65.8    | 51.0  | 76.6  |





#25

Chloroform

Concen: 4.773 ug/L

RT: 5.075 min Scan# 1178

Delta R.T. -0.003 min

Lab File: VU058640.D

Acq: 12 Apr 2024 04:12

Instrument :

MSVOA\_U

ClientSampleId :

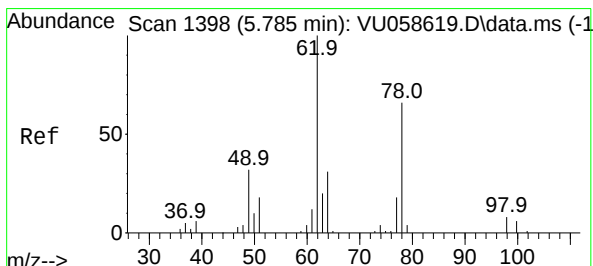
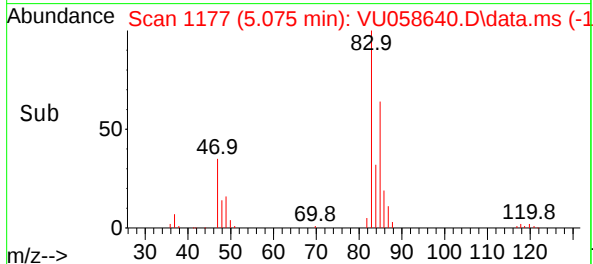
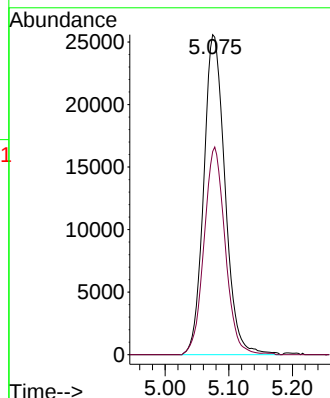
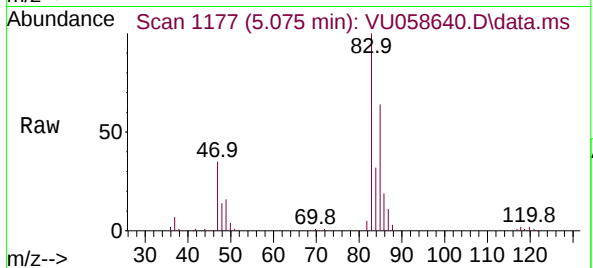
VSTD005196

Tgt Ion: 83 Resp: 59466

Ion Ratio Lower Upper

83 100

85 63.5 44.7 83.1



#27

1,2-Dichloroethane

Concen: 4.887 ug/L

RT: 5.785 min Scan# 1398

Delta R.T. -0.000 min

Lab File: VU058640.D

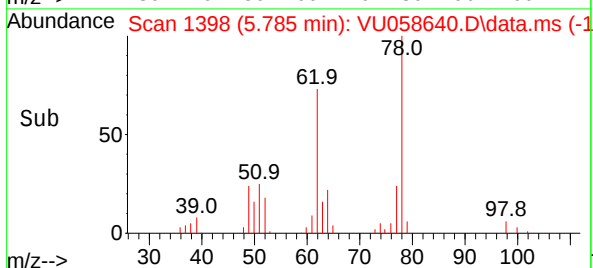
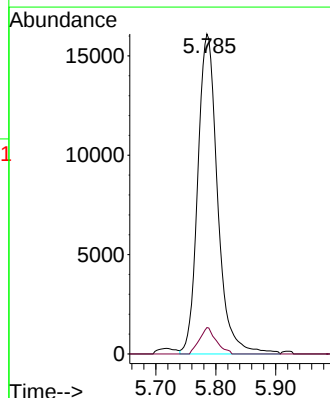
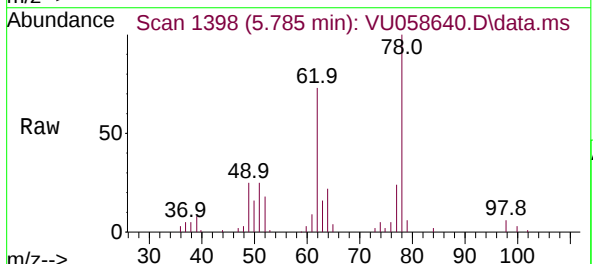
Acq: 12 Apr 2024 04:12

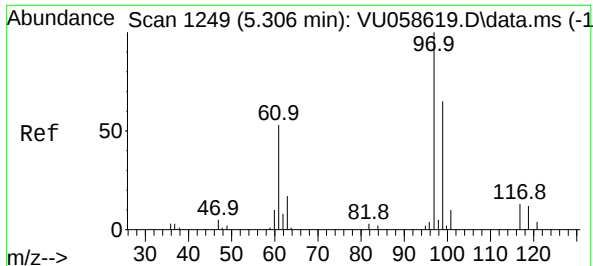
Tgt Ion: 62 Resp: 37076

Ion Ratio Lower Upper

62 100

98 8.3 7.0 10.4

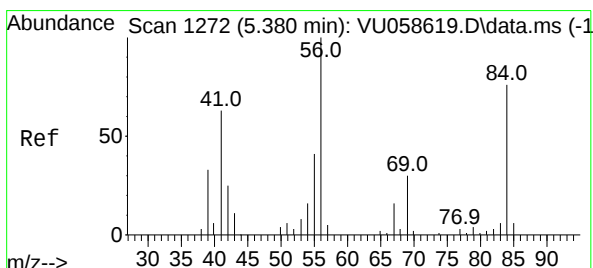
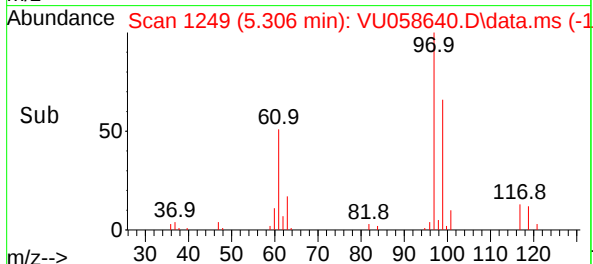
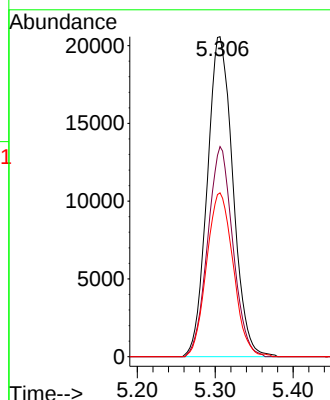
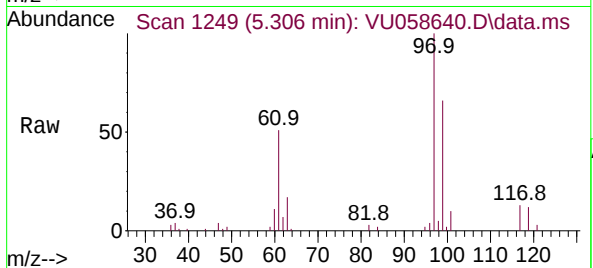




#29  
1,1,1-Trichloroethane  
Concen: 4.464 ug/L  
RT: 5.306 min Scan# 1249  
Delta R.T. -0.000 min  
Lab File: VU058640.D  
Acq: 12 Apr 2024 04:12

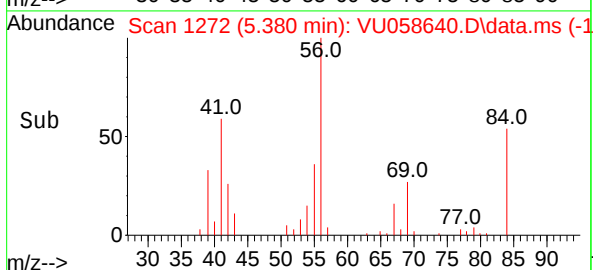
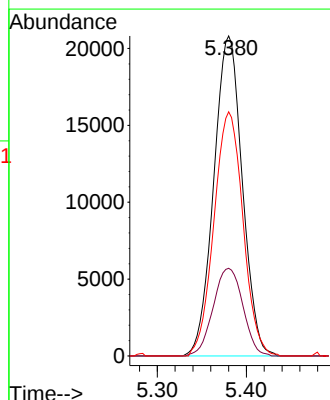
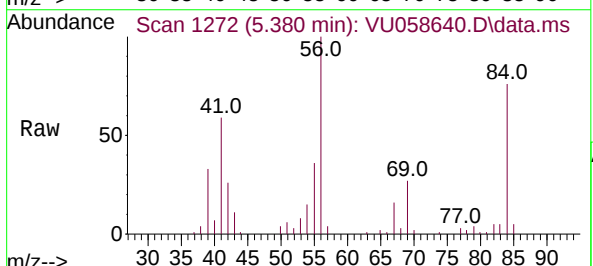
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005196

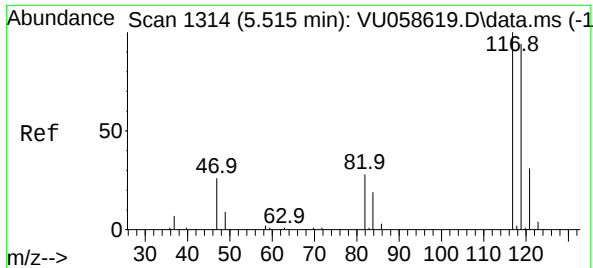
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 47104 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 64.3  | 50.4  | 75.6  |
| 61       | 53.2  | 39.4  | 59.0  |



#30  
Cyclohexane  
Concen: 4.155 ug/L  
RT: 5.380 min Scan# 1272  
Delta R.T. -0.000 min  
Lab File: VU058640.D  
Acq: 12 Apr 2024 04:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 46303 |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 28.5  | 23.2  | 34.8  |
| 84       | 77.6  | 63.3  | 94.9  |

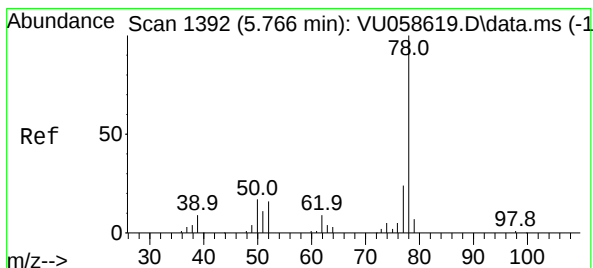
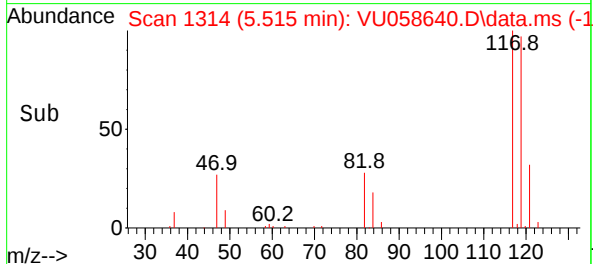
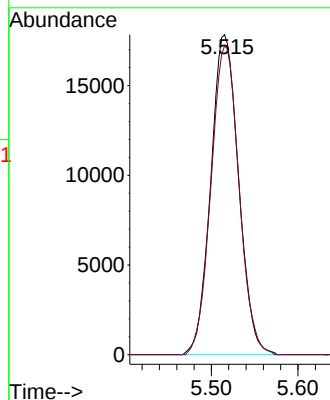
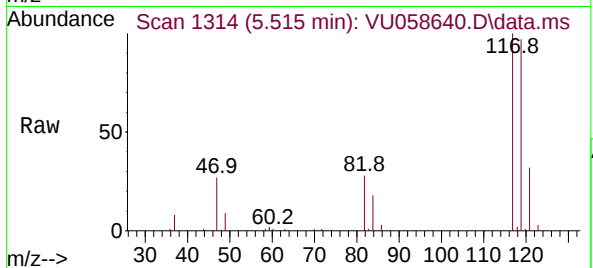




#31  
Carbon tetrachloride  
Concen: 4.451 ug/L  
RT: 5.515 min Scan# 1314  
Delta R.T. -0.000 min  
Lab File: VU058640.D  
Acq: 12 Apr 2024 04:12

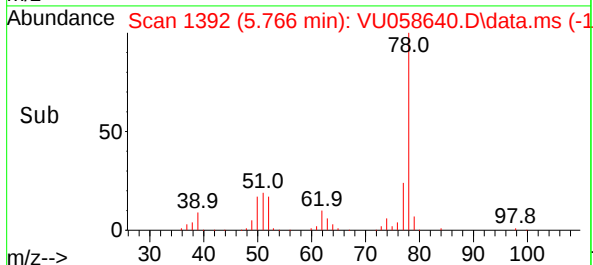
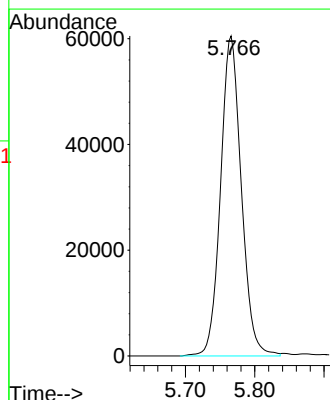
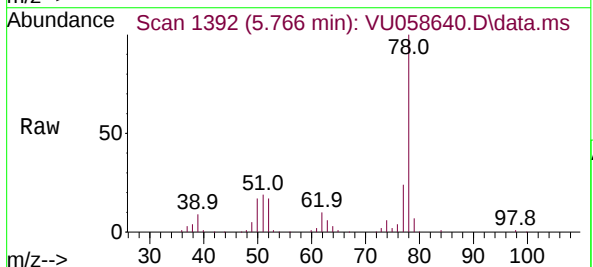
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005196

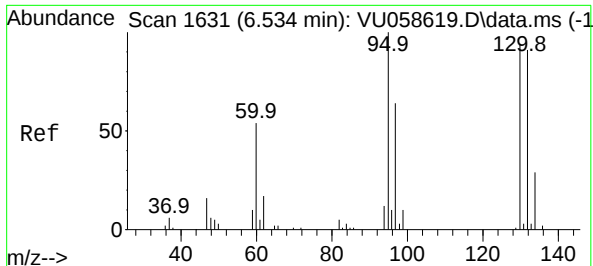
Tgt Ion:117 Resp: 39767  
Ion Ratio Lower Upper  
117 100  
119 97.2 76.7 115.1



#33  
Benzene  
Concen: 4.417 ug/L  
RT: 5.766 min Scan# 1392  
Delta R.T. -0.000 min  
Lab File: VU058640.D  
Acq: 12 Apr 2024 04:12

Tgt Ion: 78 Resp: 126016

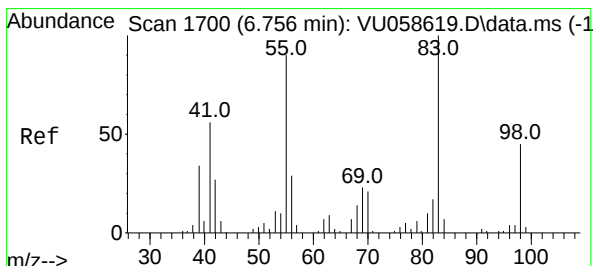
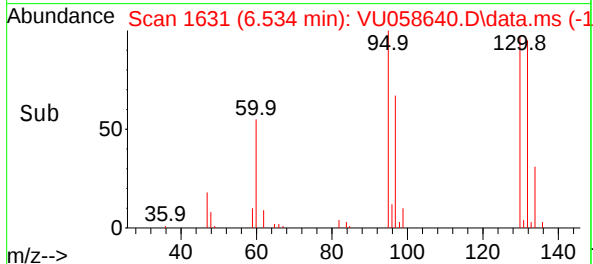
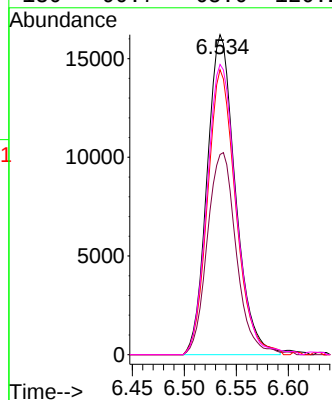
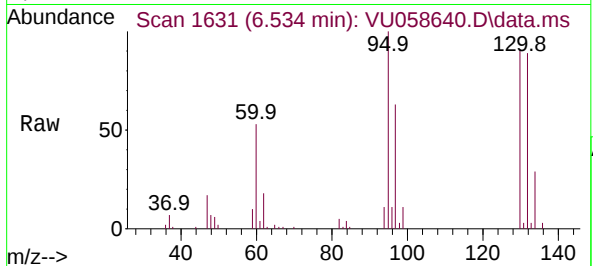




#34  
Trichloroethene  
Concen: 4.273 ug/L  
RT: 6.534 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VU058640.D  
Acq: 12 Apr 2024 04:12

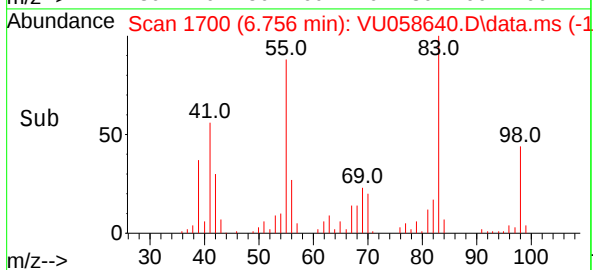
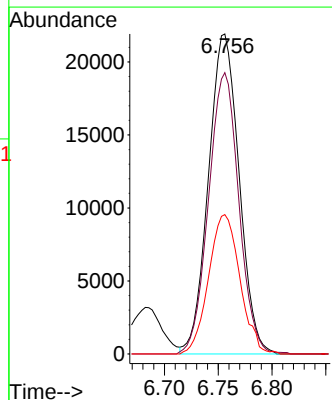
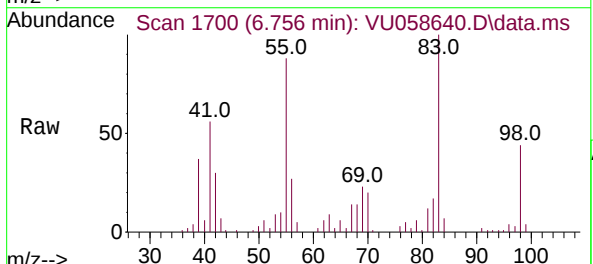
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005196

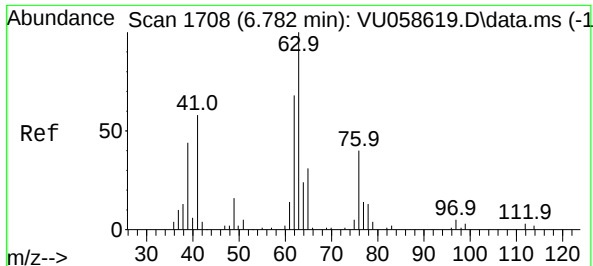
Tgt Ion: 95 Resp: 30727  
Ion Ratio Lower Upper  
95 100  
97 62.6 45.6 84.6  
132 89.0 64.8 120.3  
130 90.7 68.0 126.2



#35  
Methylcyclohexane  
Concen: 4.012 ug/L  
RT: 6.756 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VU058640.D  
Acq: 12 Apr 2024 04:12

Tgt Ion: 83 Resp: 43467  
Ion Ratio Lower Upper  
83 100  
55 86.8 66.2 99.4  
98 44.5 34.6 52.0

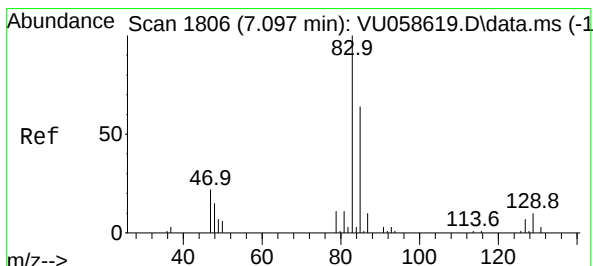
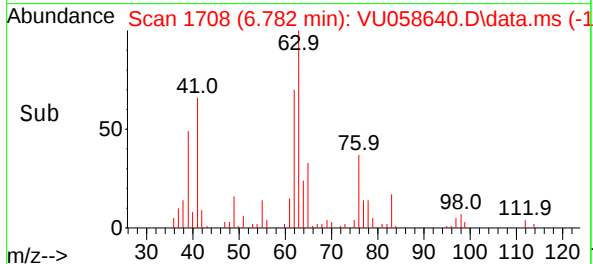
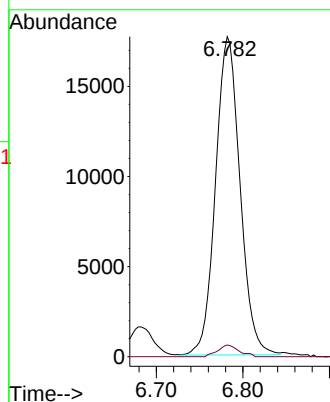
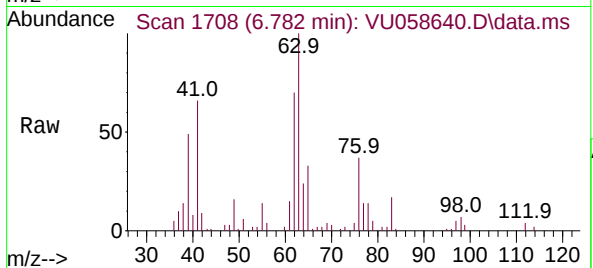




#37  
1,2-Dichloropropane  
Concen: 4.624 ug/L  
RT: 6.782 min Scan# 1708  
Delta R.T. -0.000 min  
Lab File: VU058640.D  
Acq: 12 Apr 2024 04:12

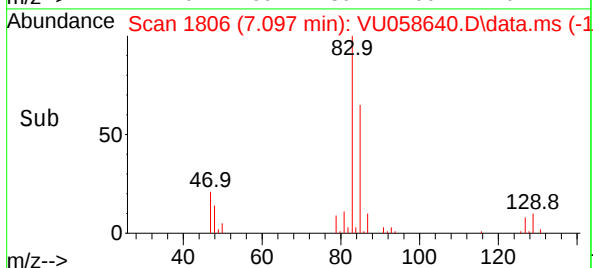
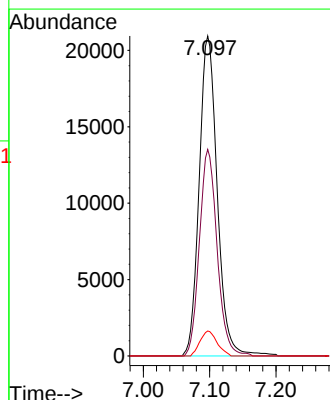
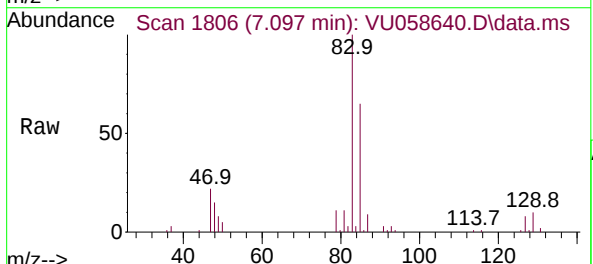
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005196

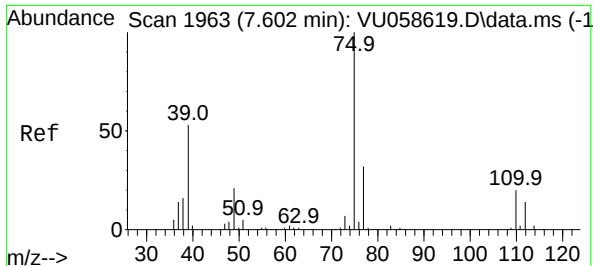
Tgt Ion: 63 Resp: 34704  
Ion Ratio Lower Upper  
63 100  
112 3.1 2.6 4.0



#38  
Bromodichloromethane  
Concen: 4.628 ug/L  
RT: 7.097 min Scan# 1806  
Delta R.T. -0.000 min  
Lab File: VU058640.D  
Acq: 12 Apr 2024 04:12

Tgt Ion: 83 Resp: 39643  
Ion Ratio Lower Upper  
83 100  
85 64.6 44.2 82.2  
127 7.8 6.5 9.7

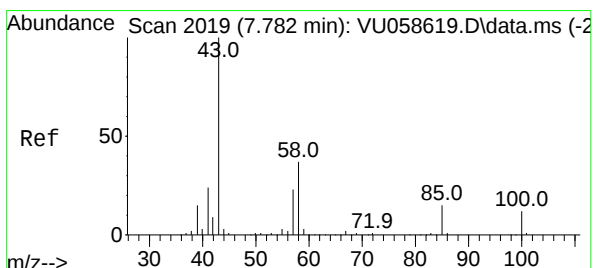
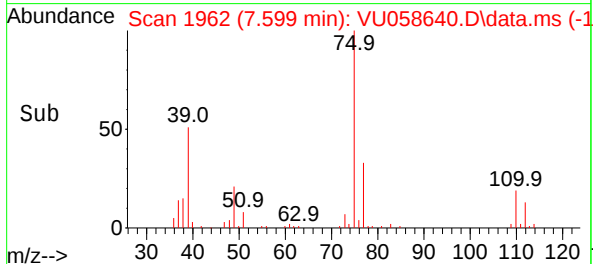
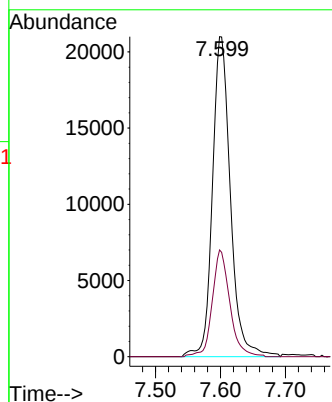
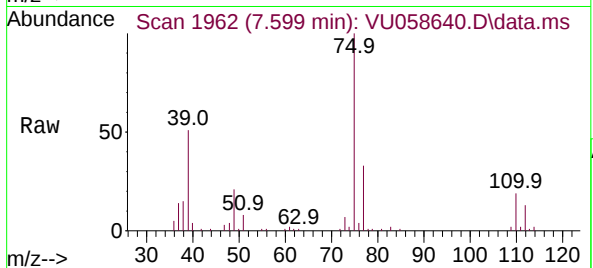




#39  
 cis-1,3-Dichloropropene  
 Concen: 4.231 ug/L  
 RT: 7.599 min Scan# 1962  
 Delta R.T. -0.003 min  
 Lab File: VU058640.D  
 Acq: 12 Apr 2024 04:12

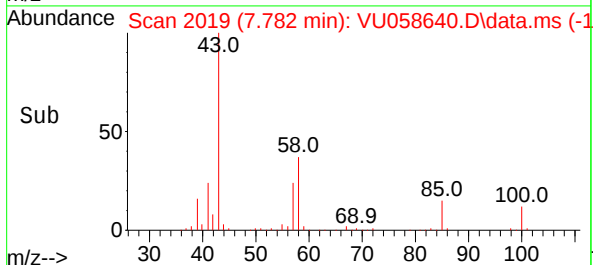
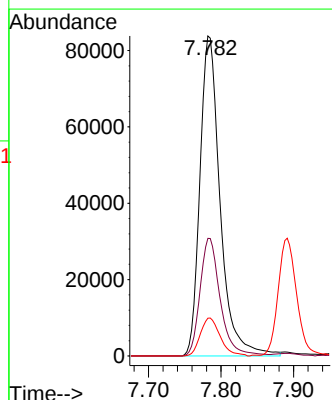
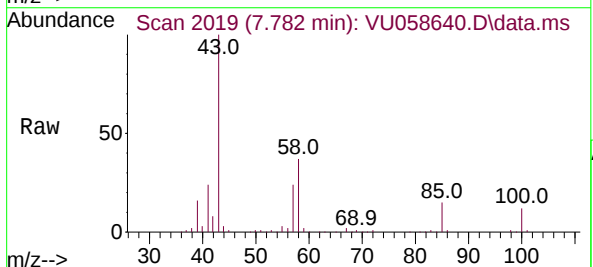
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005196

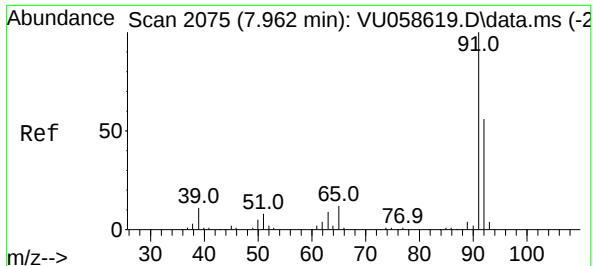
Tgt Ion: 75 Resp: 40380  
 Ion Ratio Lower Upper  
 75 100  
 77 33.3 22.7 42.3



#40  
 4-Methyl-2-pentanone  
 Concen: 46.020 ug/L  
 RT: 7.782 min Scan# 2019  
 Delta R.T. -0.000 min  
 Lab File: VU058640.D  
 Acq: 12 Apr 2024 04:12

Tgt Ion: 43 Resp: 162574  
 Ion Ratio Lower Upper  
 43 100  
 58 36.7 30.4 45.6  
 100 11.6 10.3 15.5





#42

Toluene

Concen: 4.362 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. -0.000 min

Lab File: VU058640.D

Acq: 12 Apr 2024 04:12

Instrument :

MSVOA\_U

ClientSampleId :

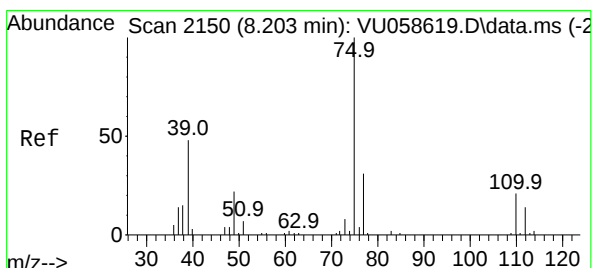
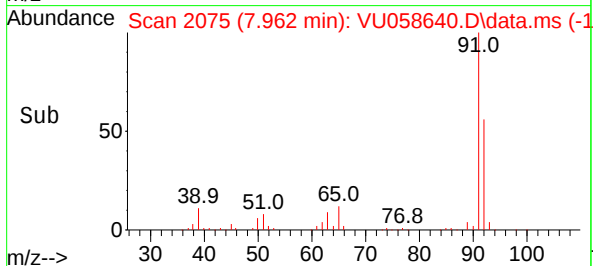
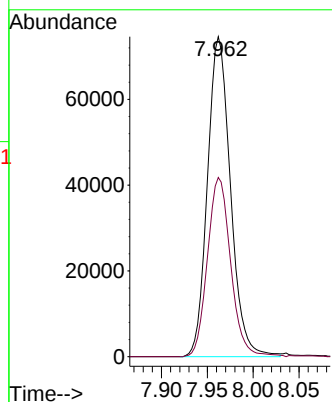
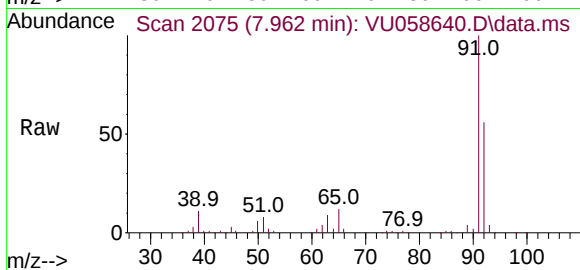
VSTD005196

Tgt Ion: 91 Resp: 130513

Ion Ratio Lower Upper

91 100

92 56.0 39.5 73.3



#44

trans-1,3-Dichloropropene

Concen: 4.409 ug/L

RT: 8.203 min Scan# 2150

Delta R.T. -0.000 min

Lab File: VU058640.D

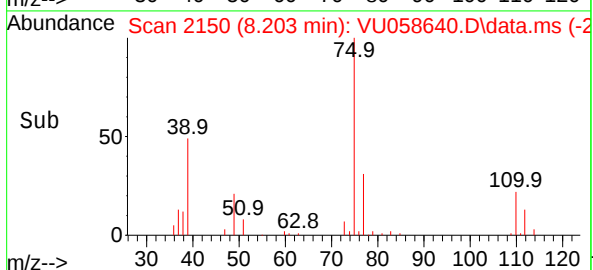
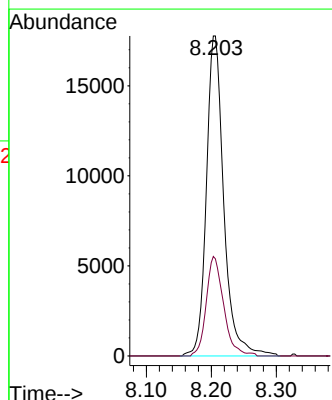
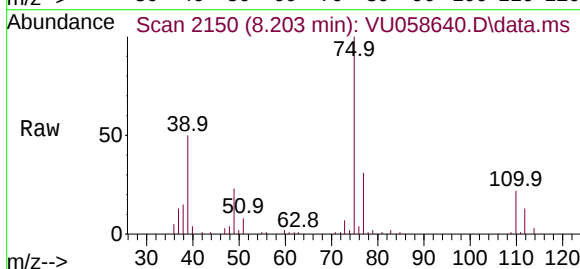
Acq: 12 Apr 2024 04:12

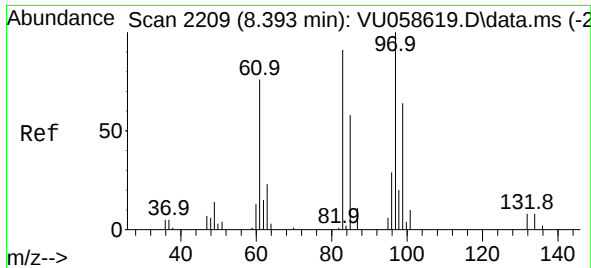
Tgt Ion: 75 Resp: 33187

Ion Ratio Lower Upper

75 100

77 31.1 22.2 41.2



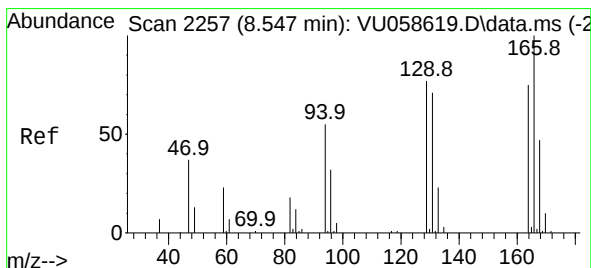
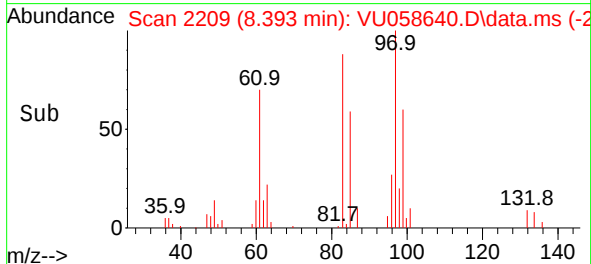
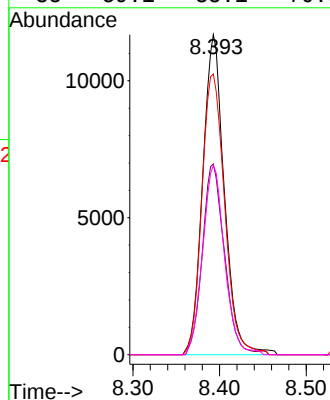
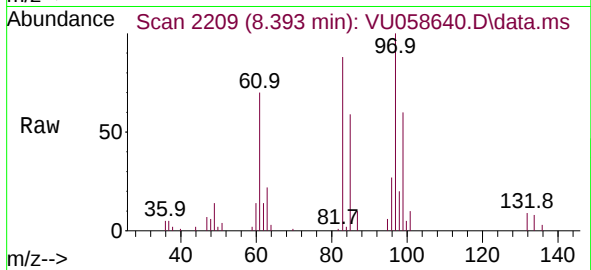


#45  
1,1,2-Trichloroethane  
Concen: 4.630 ug/L  
RT: 8.393 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU058640.D  
Acq: 12 Apr 2024 04:12

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005196

Tgt Ion: 97 Resp: 20295

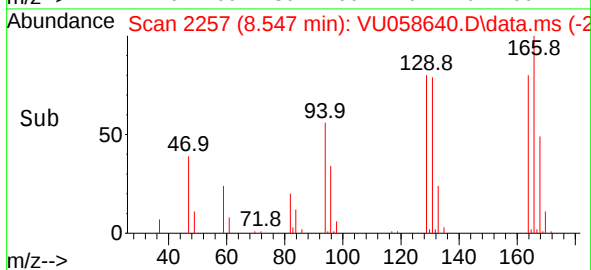
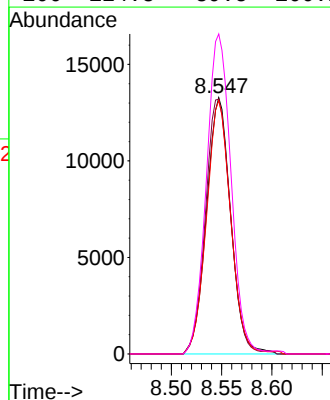
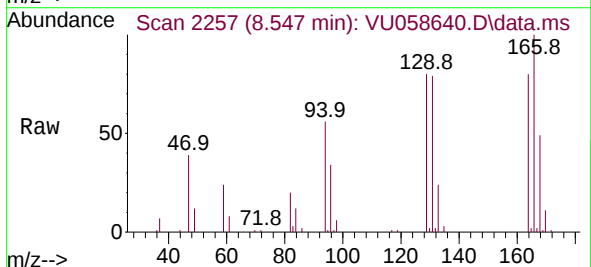
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 59.6  | 43.7  | 81.1  |
| 83  | 87.7  | 64.5  | 119.7 |
| 85  | 59.1  | 38.1  | 70.9  |

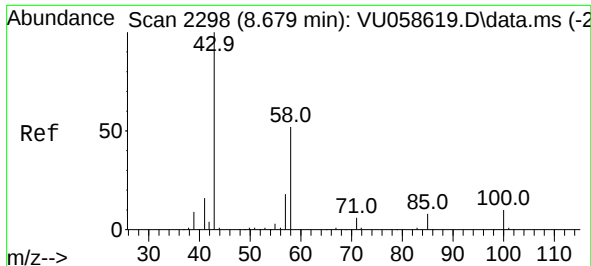


#47  
Tetrachloroethene  
Concen: 4.238 ug/L  
RT: 8.547 min Scan# 2257  
Delta R.T. -0.000 min  
Lab File: VU058640.D  
Acq: 12 Apr 2024 04:12

Tgt Ion: 164 Resp: 22342

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 99.5  | 67.3  | 125.1 |
| 131 | 98.9  | 65.5  | 121.6 |
| 166 | 124.8 | 89.5  | 166.1 |





#48

2-Hexanone

Concen: 46.159 ug/L

RT: 8.679 min Scan# 2298

Delta R.T. -0.000 min

Lab File: VU058640.D

Acq: 12 Apr 2024 04:12

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005196

Tgt Ion: 43 Resp: 115762

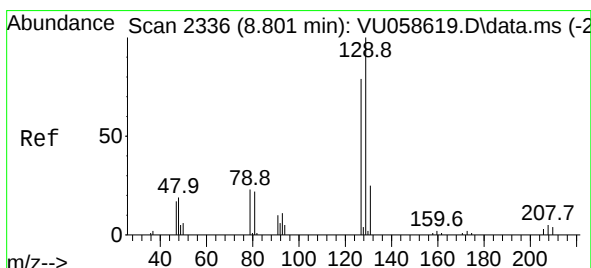
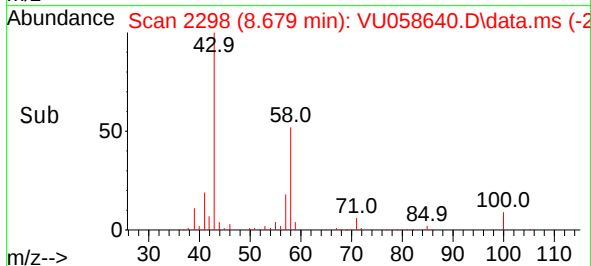
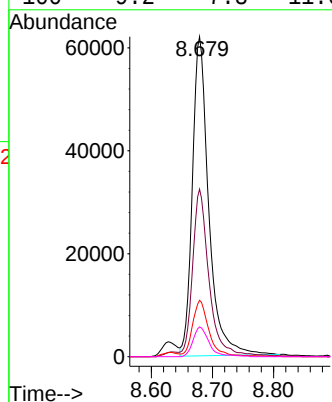
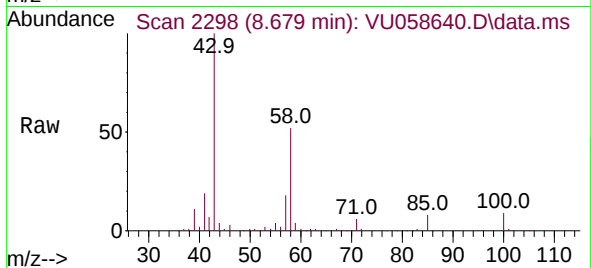
Ion Ratio Lower Upper

43 100

58 52.6 43.2 64.8

57 17.4 15.4 23.0

100 9.2 7.8 11.6



#49

Dibromochloromethane

Concen: 4.380 ug/L

RT: 8.801 min Scan# 2336

Delta R.T. -0.000 min

Lab File: VU058640.D

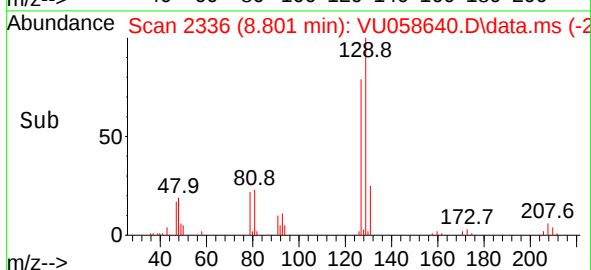
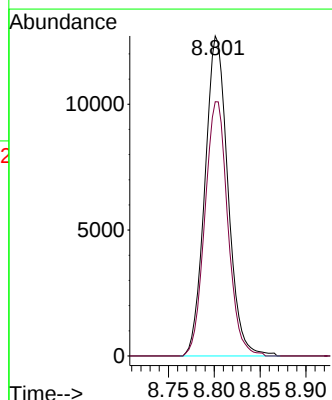
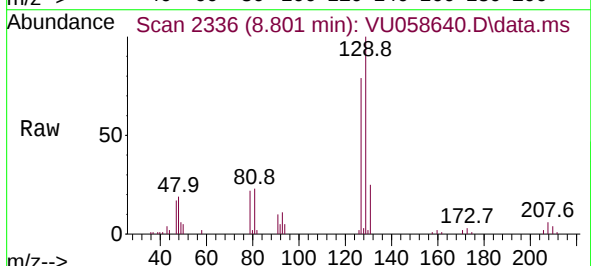
Acq: 12 Apr 2024 04:12

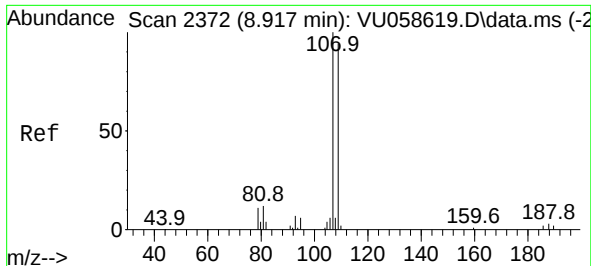
Tgt Ion: 129 Resp: 22199

Ion Ratio Lower Upper

129 100

127 79.5 53.5 99.5





#50

1,2-Dibromoethane

Concen: 4.405 ug/L

RT: 8.917 min Scan# 2372

Delta R.T. -0.000 min

Lab File: VU058640.D

Acq: 12 Apr 2024 04:12

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005196

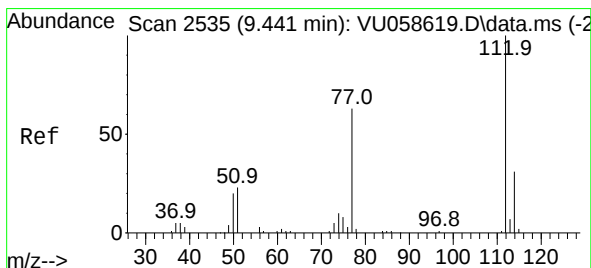
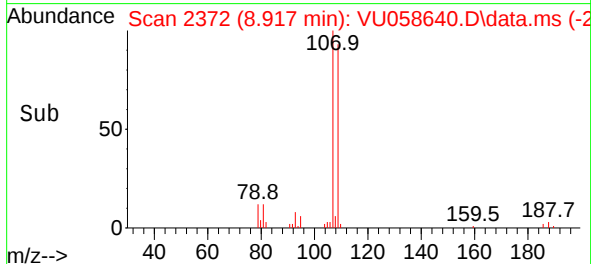
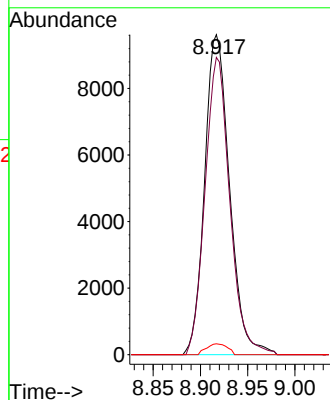
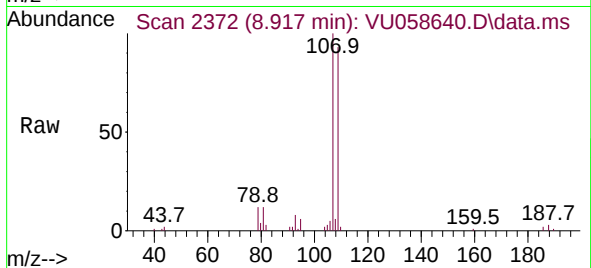
Tgt Ion:107 Resp: 17659

Ion Ratio Lower Upper

107 100

109 92.9 67.3 124.9

188 3.4 2.5 3.7



#51

Chlorobenzene

Concen: 4.303 ug/L

RT: 9.441 min Scan# 2535

Delta R.T. -0.000 min

Lab File: VU058640.D

Acq: 12 Apr 2024 04:12

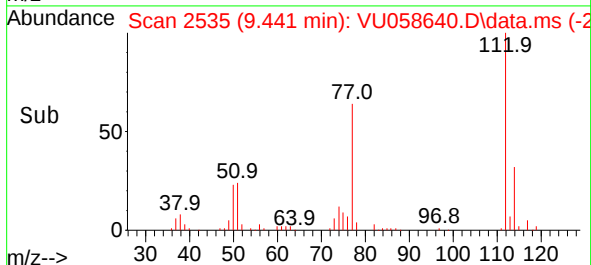
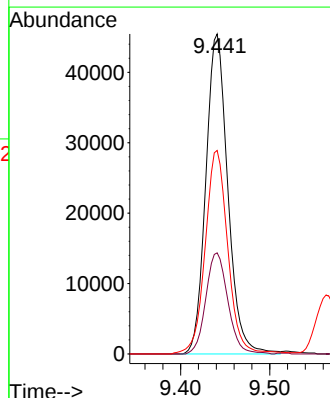
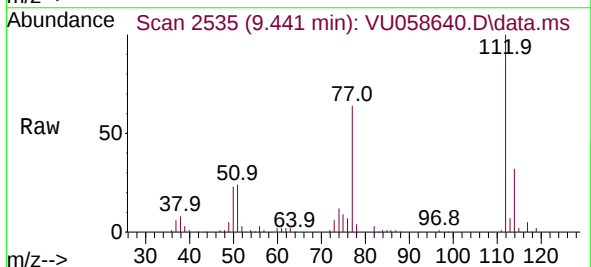
Tgt Ion:112 Resp: 77909

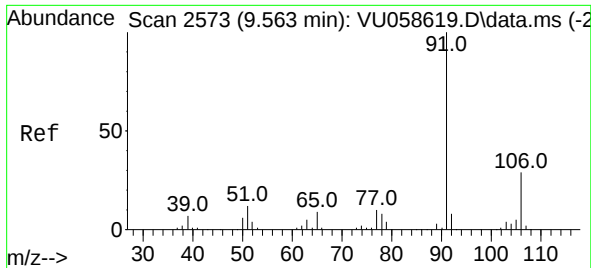
Ion Ratio Lower Upper

112 100

114 31.6 22.4 41.6

77 63.6 50.1 75.1





#52

Ethylbenzene

Concen: 4.352 ug/L

RT: 9.563 min Scan# 2573

Delta R.T. -0.000 min

Lab File: VU058640.D

Acq: 12 Apr 2024 04:12

Instrument :

MSVOA\_U

ClientSampleId :

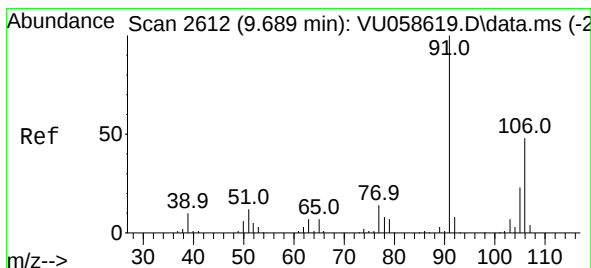
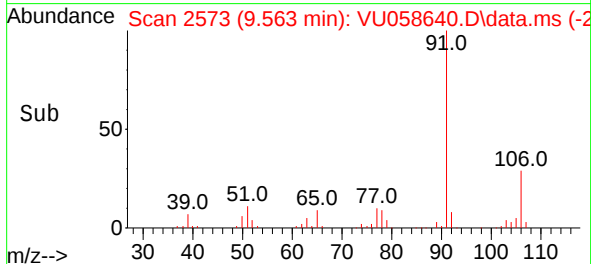
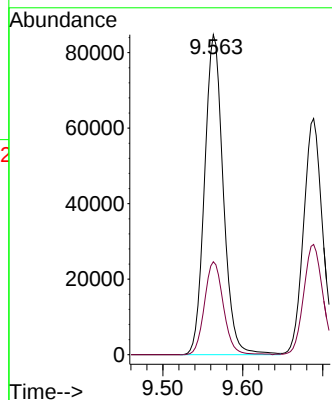
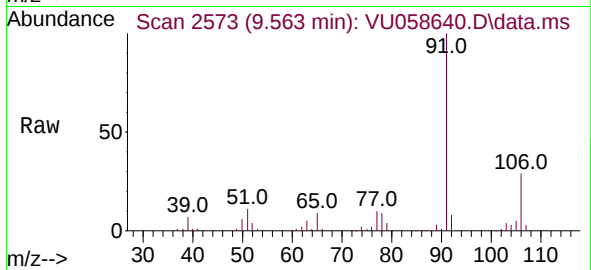
VSTD005196

Tgt Ion: 91 Resp: 137941

Ion Ratio Lower Upper

91 100

106 29.0 20.6 38.4



#53

m,p-Xylene

Concen: 4.378 ug/L

RT: 9.689 min Scan# 2612

Delta R.T. -0.000 min

Lab File: VU058640.D

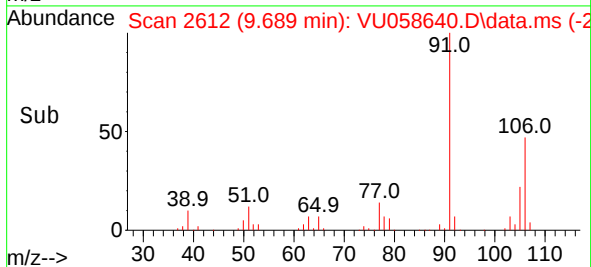
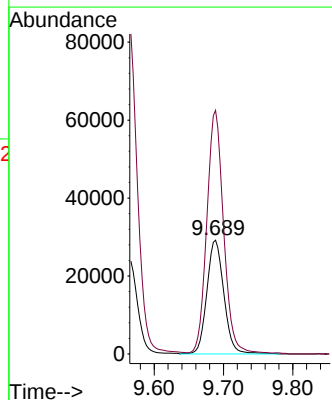
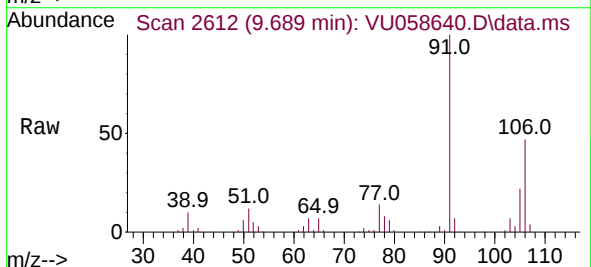
Acq: 12 Apr 2024 04:12

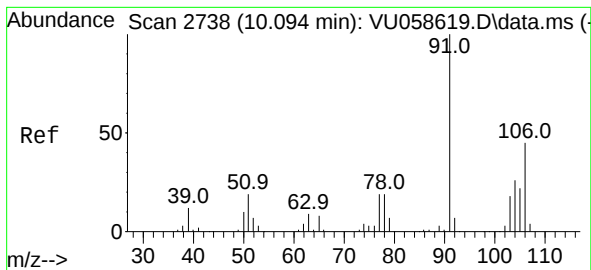
Tgt Ion:106 Resp: 49700

Ion Ratio Lower Upper

106 100

91 214.2 147.8 274.4





#54

o-Xylene

Concen: 4.370 ug/L

RT: 10.094 min Scan# 2738

Delta R.T. -0.000 min

Lab File: VU058640.D

Acq: 12 Apr 2024 04:12

Instrument :

MSVOA\_U

ClientSampleId :

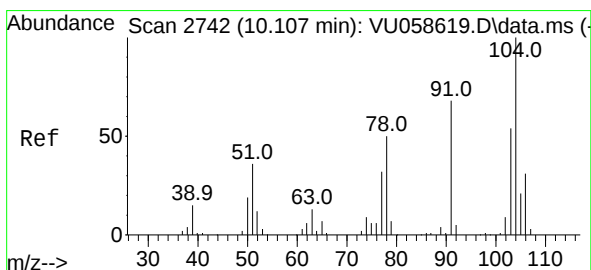
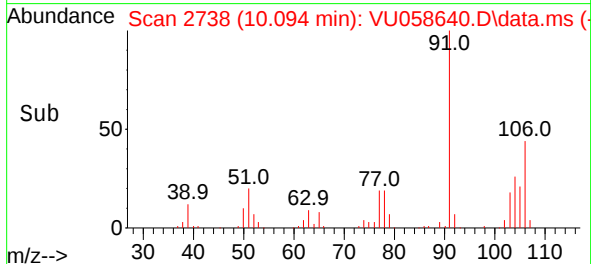
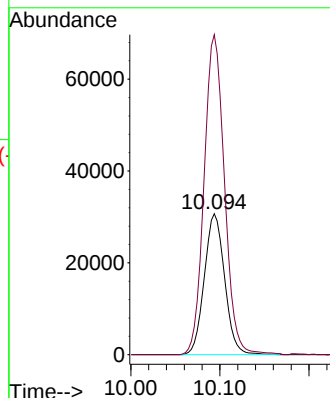
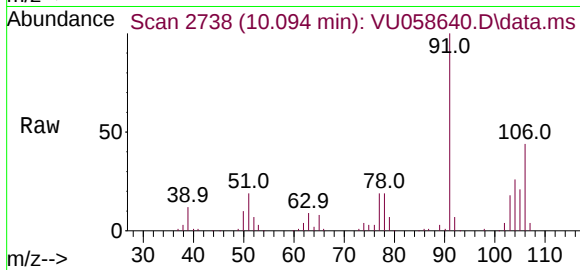
VSTD005196

Tgt Ion:106 Resp: 48632

Ion Ratio Lower Upper

106 100

91 227.1 156.9 291.5



#55

Styrene

Concen: 4.462 ug/L

RT: 10.107 min Scan# 2742

Delta R.T. -0.000 min

Lab File: VU058640.D

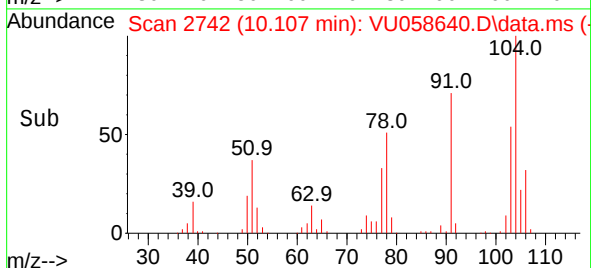
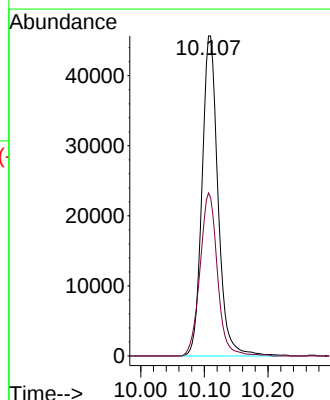
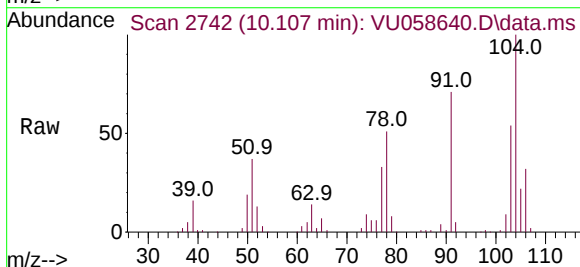
Acq: 12 Apr 2024 04:12

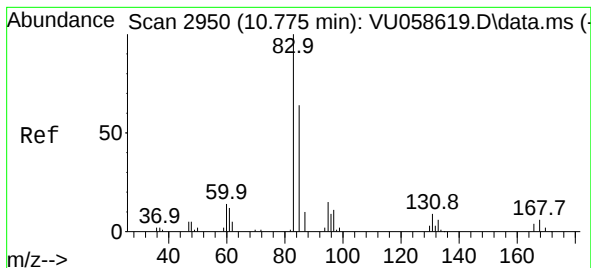
Tgt Ion:104 Resp: 79883

Ion Ratio Lower Upper

104 100

78 50.9 33.9 63.0





#57

1,1,2,2-Tetrachloroethane

Concen: 4.519 ug/L

RT: 10.775 min Scan# 2950

Delta R.T. -0.000 min

Lab File: VU058640.D

Acq: 12 Apr 2024 04:12

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005196

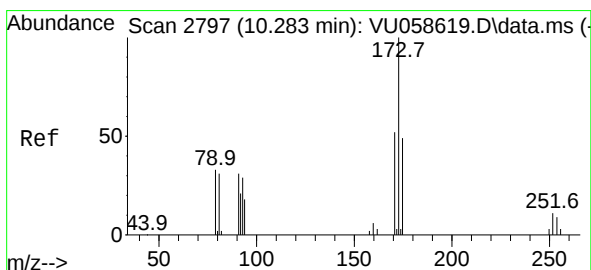
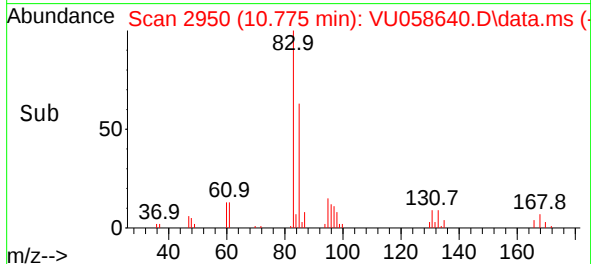
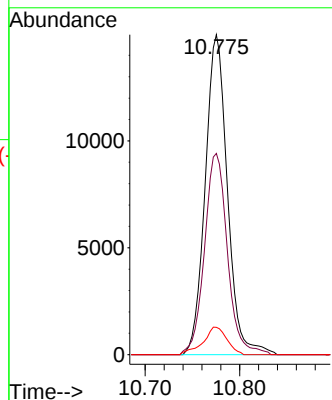
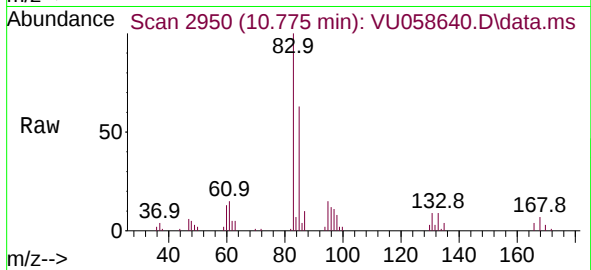
Tgt Ion: 83 Resp: 24434

Ion Ratio Lower Upper

83 100

85 62.9 45.1 83.7

131 8.5 6.9 10.3



#59

Bromoform

Concen: 4.419 ug/L

RT: 10.283 min Scan# 2797

Delta R.T. -0.000 min

Lab File: VU058640.D

Acq: 12 Apr 2024 04:12

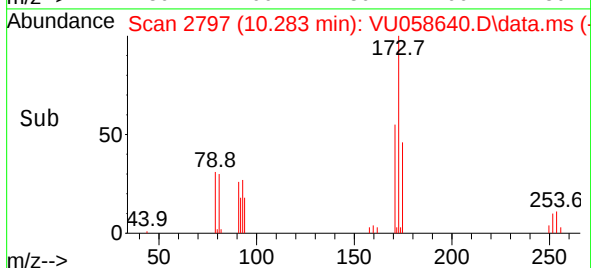
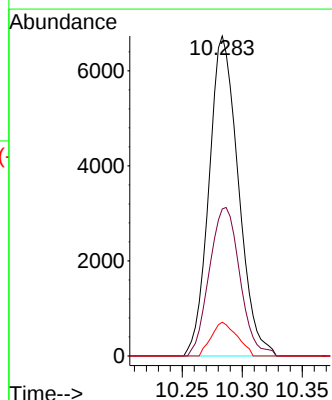
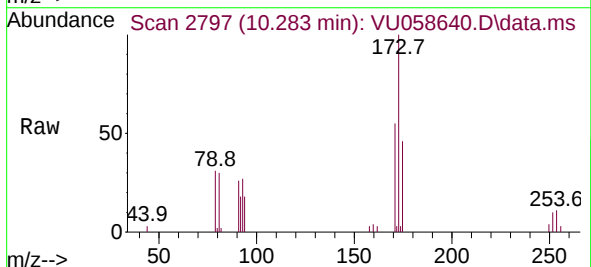
Tgt Ion:173 Resp: 11428

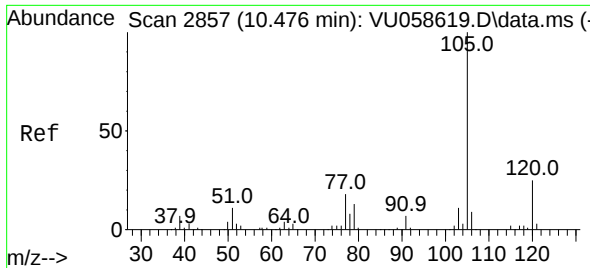
Ion Ratio Lower Upper

173 100

175 48.4 38.0 57.0

254 9.2 7.5 11.3

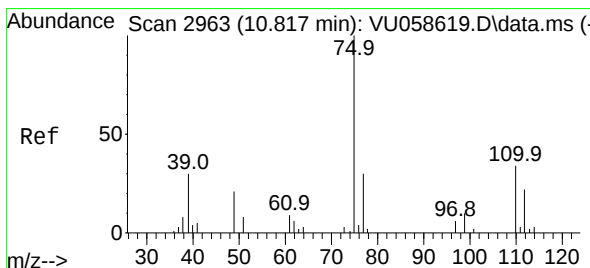
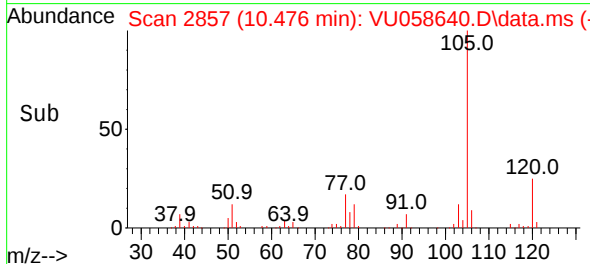
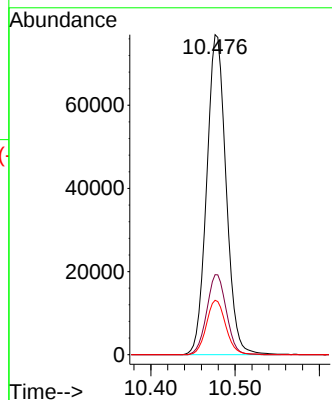
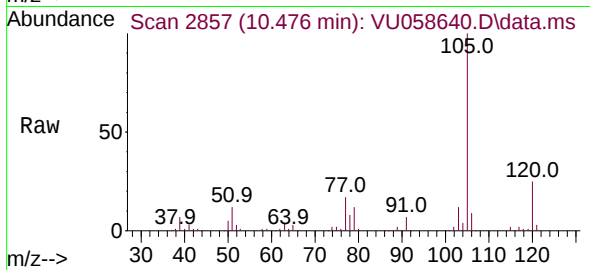




#60  
Isopropylbenzene  
Concen: 4.347 ug/L  
RT: 10.476 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU058640.D  
Acq: 12 Apr 2024 04:12

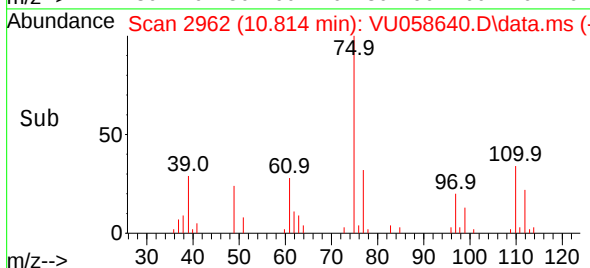
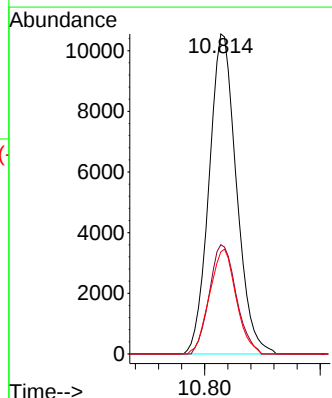
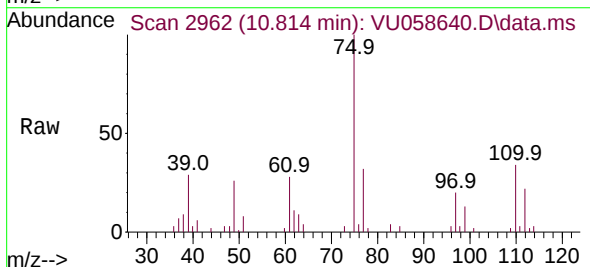
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005196

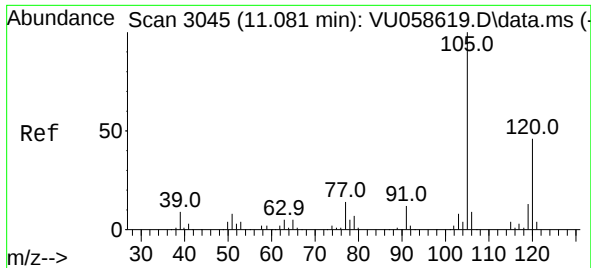
Tgt Ion:105 Resp: 123176  
Ion Ratio Lower Upper  
105 100  
120 25.3 20.2 30.4  
77 17.0 13.5 20.3



#61  
1,2,3-Trichloropropane  
Concen: 4.390 ug/L  
RT: 10.814 min Scan# 2962  
Delta R.T. -0.003 min  
Lab File: VU058640.D  
Acq: 12 Apr 2024 04:12

Tgt Ion: 75 Resp: 17339  
Ion Ratio Lower Upper  
75 100  
110 33.5 25.8 38.6  
77 31.9 25.1 37.7





#62

1,3,5-Trimethylbenzene

Concen: 4.244 ug/L

RT: 11.081 min Scan# 3045

Delta R.T. -0.000 min

Lab File: VU058640.D

Acq: 12 Apr 2024 04:12

Instrument :

MSVOA\_U

ClientSampleId :

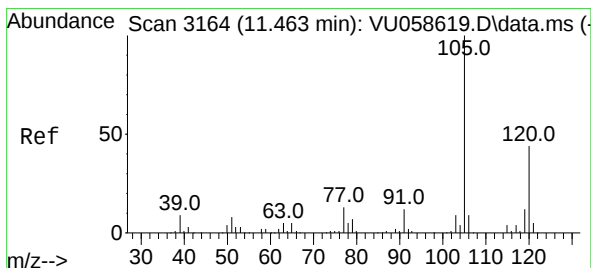
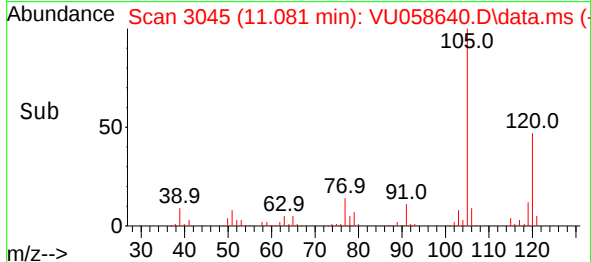
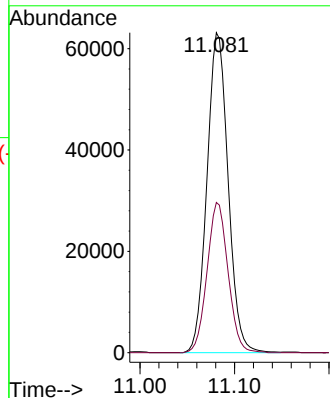
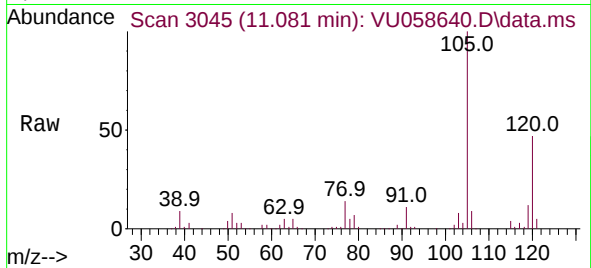
VSTD005196

Tgt Ion:105 Resp: 98079

Ion Ratio Lower Upper

105 100

120 46.6 37.2 55.8



#63

1,2,4-Trimethylbenzene

Concen: 4.284 ug/L

RT: 11.463 min Scan# 3164

Delta R.T. -0.000 min

Lab File: VU058640.D

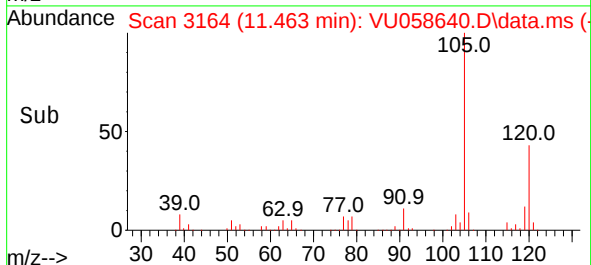
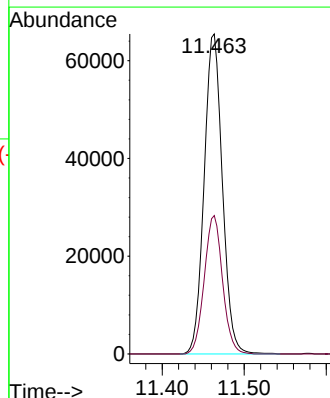
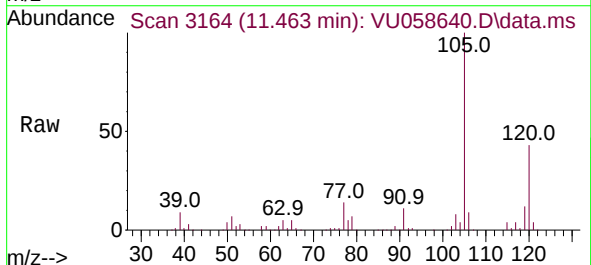
Acq: 12 Apr 2024 04:12

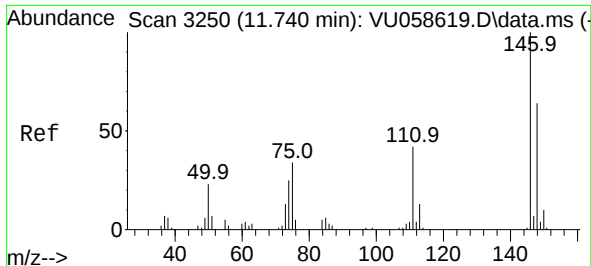
Tgt Ion:105 Resp: 101073

Ion Ratio Lower Upper

105 100

120 43.3 34.7 52.1





#64

1,3-Dichlorobenzene

Concen: 4.185 ug/L

RT: 11.740 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU058640.D

Acq: 12 Apr 2024 04:12

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005196

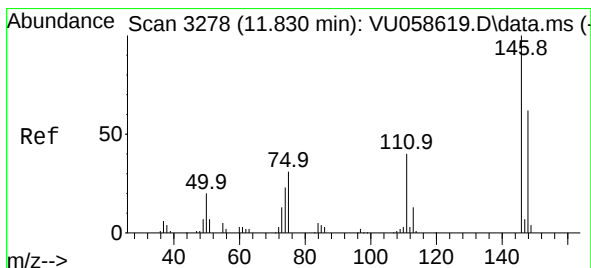
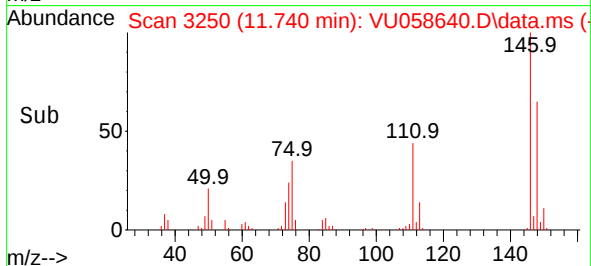
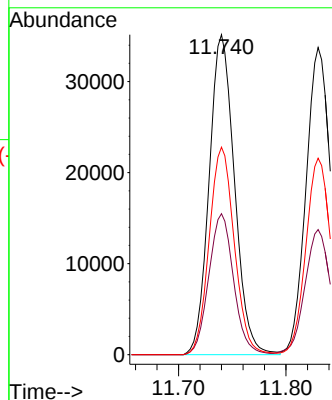
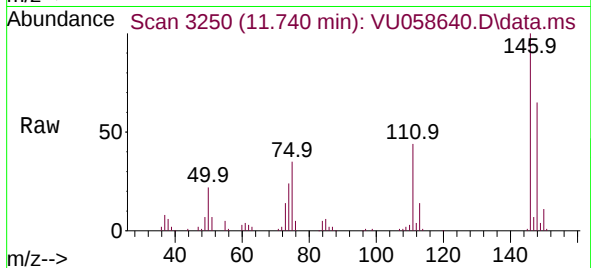
Tgt Ion:146 Resp: 57600

Ion Ratio Lower Upper

146 100

111 44.1 28.8 53.4

148 64.8 44.9 83.3



#65

1,4-Dichlorobenzene

Concen: 4.129 ug/L

RT: 11.830 min Scan# 3278

Delta R.T. -0.000 min

Lab File: VU058640.D

Acq: 12 Apr 2024 04:12

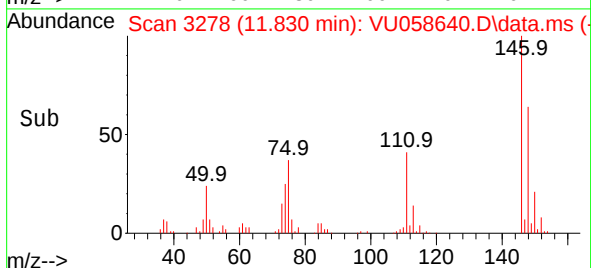
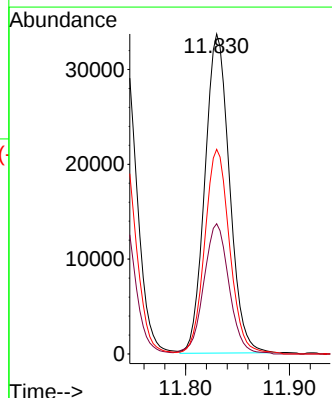
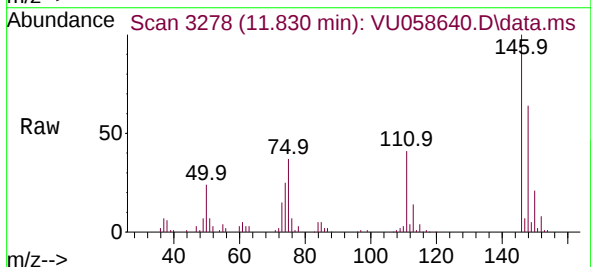
Tgt Ion:146 Resp: 55372

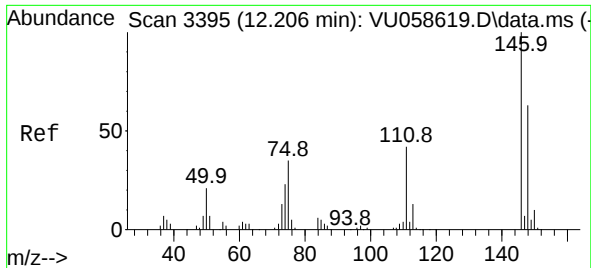
Ion Ratio Lower Upper

146 100

111 40.7 28.8 53.6

148 64.0 45.3 84.1





#67

1,2-Dichlorobenzene

Concen: 4.267 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. -0.000 min

Lab File: VU058640.D

Acq: 12 Apr 2024 04:12

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005196

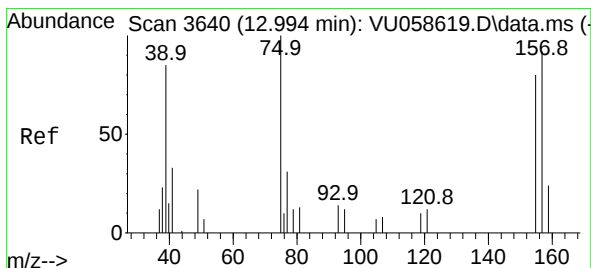
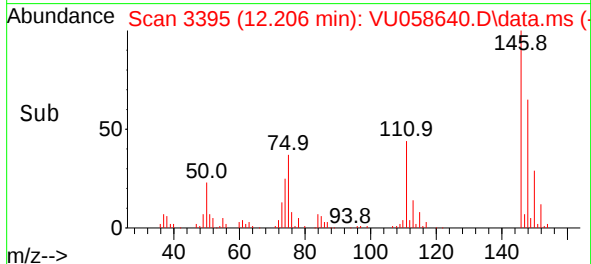
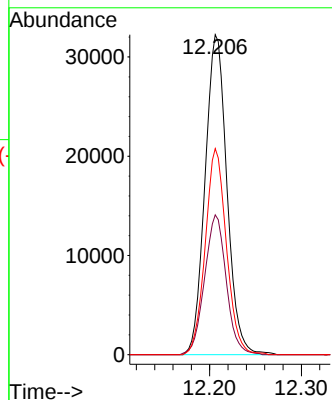
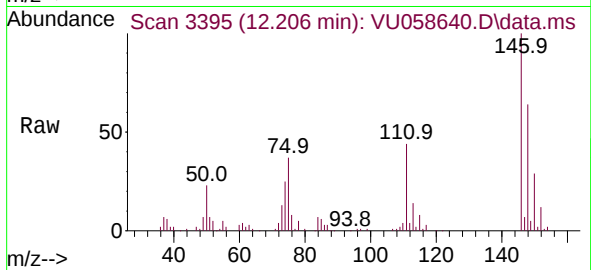
Tgt Ion:146 Resp: 53428

Ion Ratio Lower Upper

146 100

111 43.7 35.0 52.4

148 64.4 52.5 78.7



#68

1,2-Dibromo-3-chloropropane

Concen: 4.869 ug/L

RT: 12.991 min Scan# 3639

Delta R.T. -0.003 min

Lab File: VU058640.D

Acq: 12 Apr 2024 04:12

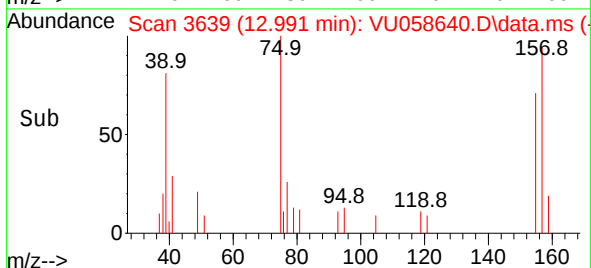
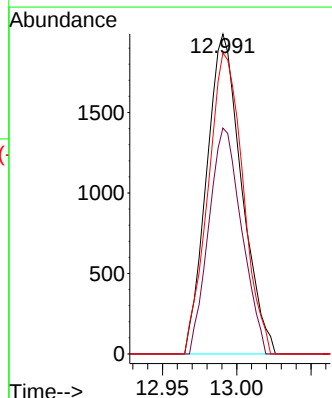
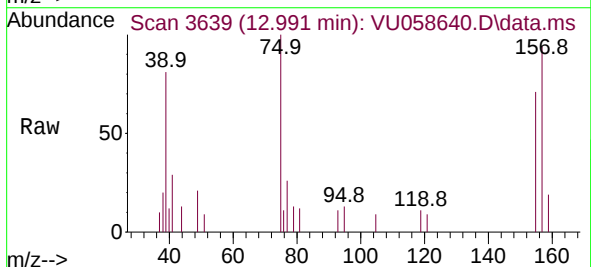
Tgt Ion: 75 Resp: 3261

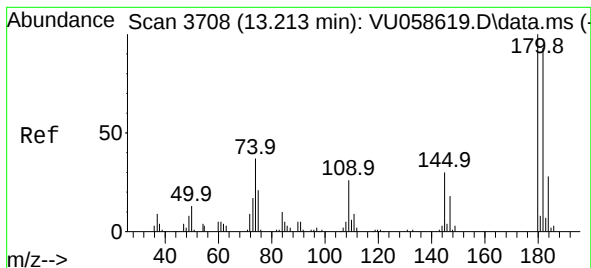
Ion Ratio Lower Upper

75 100

155 70.6 61.4 92.0

157 94.1 81.7 122.5





#69

1,3,5-Trichlorobenzene

Concen: 3.941 ug/L

RT: 13.213 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU058640.D

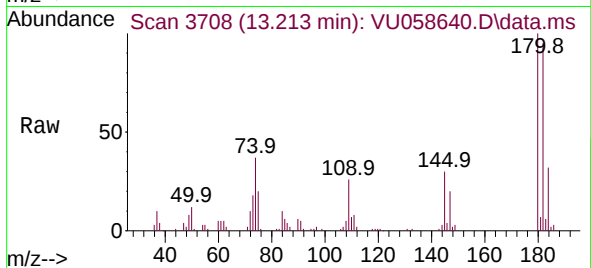
Acq: 12 Apr 2024 04:12

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005196



Tgt Ion:180 Resp: 40117

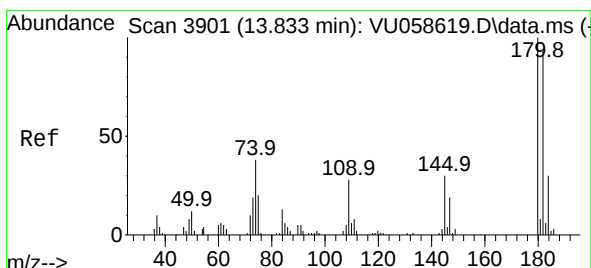
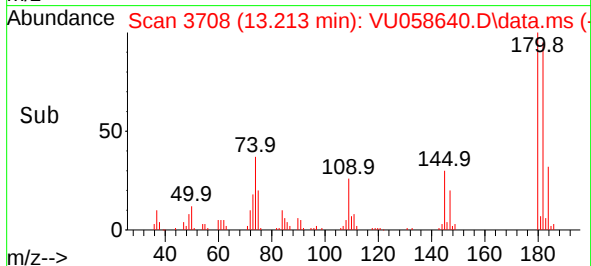
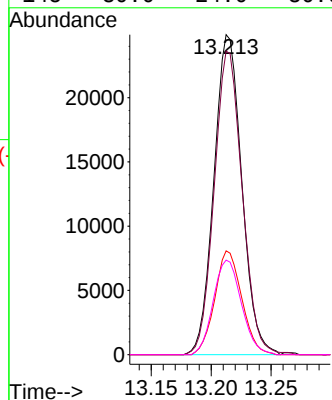
Ion Ratio Lower Upper

180 100

182 95.3 75.7 113.5

184 31.5 24.3 36.5

145 30.0 24.0 36.0



#70

1,2,4-trichlorobenzene

Concen: 3.479 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.003 min

Lab File: VU058640.D

Acq: 12 Apr 2024 04:12

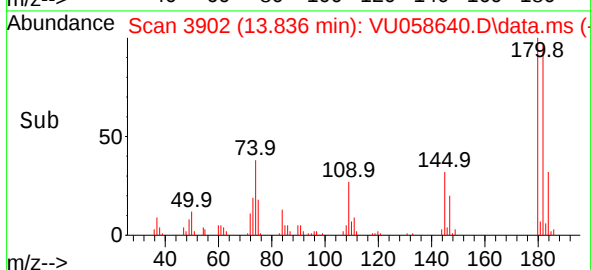
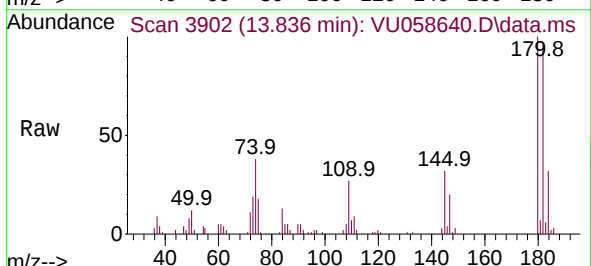
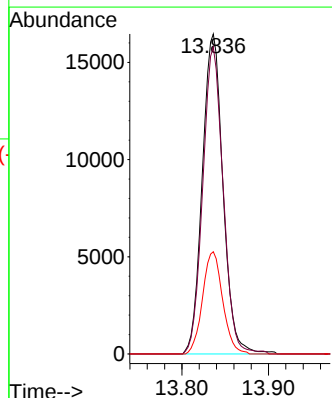
Tgt Ion:180 Resp: 27305

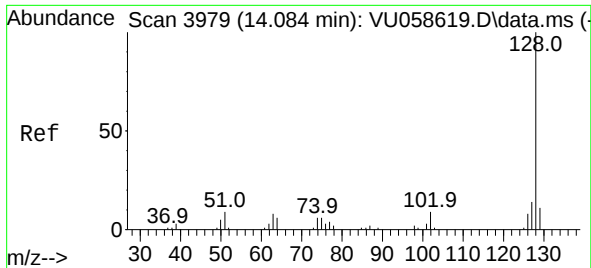
Ion Ratio Lower Upper

180 100

182 94.3 74.4 111.6

145 31.0 24.1 36.1

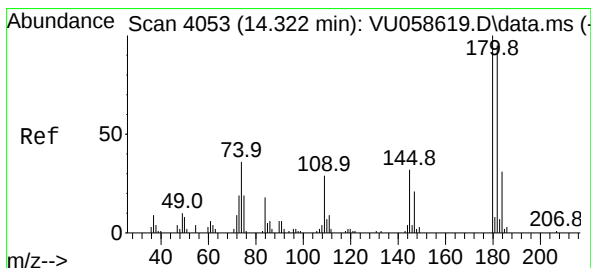
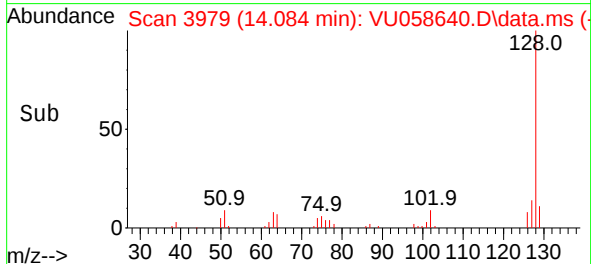
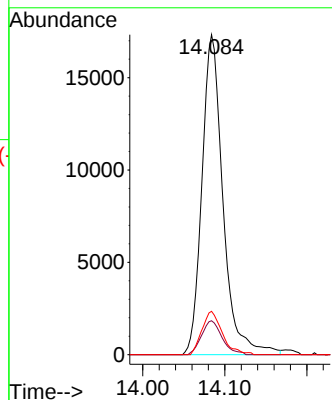
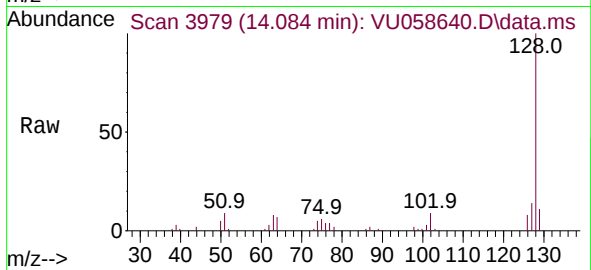




#71  
Naphthalene  
Concen: 2.871 ug/L  
RT: 14.084 min Scan# 3979  
Delta R.T. -0.000 min  
Lab File: VU058640.D  
Acq: 12 Apr 2024 04:12

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005196

Tgt Ion:128 Resp: 30882  
Ion Ratio Lower Upper  
128 100  
129 10.3 8.6 13.0  
127 13.1 11.0 16.6



#72  
1,2,3-Trichlorobenzene  
Concen: 3.524 ug/L  
RT: 14.325 min Scan# 4054  
Delta R.T. 0.003 min  
Lab File: VU058640.D  
Acq: 12 Apr 2024 04:12

Tgt Ion:180 Resp: 22841  
Ion Ratio Lower Upper  
180 100  
182 93.3 75.9 113.9  
145 33.0 25.2 37.8

